




SAVANNAH STATE COLLEGE

A Unit of

The University System of Georgia

1986-87



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THE SAVANNAH STATE COLLEGE BULLETIN

**A UNIT OF
THE UNIVERSITY SYSTEM OF
GEORGIA**

GENERAL CATALOG ISSUE 1986-87

SEPTEMBER, 1986

Savannah, Georgia 31404

Civil Rights Compliance

Applicants for admission to Savannah State College are admitted without regard to race, color, creed, religion, national origin or sex.



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ACADEMIC CALENDAR

1986-87

FALL QUARTER, 1986

September

14	Sunday	Residence Halls Open for New Students
15	Monday	Last Day to file for refund of Room Deposit (See Explanation of Fees in College Catalog)
15	Monday	FACULTY INSTITUTE FRESHMEN ORIENTATION
18	Thursday	Registration for Freshmen
19	Friday	Registration for Returning Students
22	Monday	First Day of Classes
23-25	Tuesday-Thursday	Schedule Adjustment Period. (ADD & DROP) All additions of classes must be completed during this period. (NO EXCEPTIONS)

October

1	Wednesday	Vice President notifies Deans of Faculty Eligible for Promotion and Tenure
8	Wednesday	Academic Council Meeting
10	Friday	Faculty Applications for Promotion and Tenure Due to Department Heads
20	Monday	Department Heads Recommendation Due to Deans (Promotion and Tenure)
22	Wednesday	Faculty Meeting
23-24	Thursday-Friday	Mid-Quarter Examinations
24	Friday	Notification of non-renewal of contract for non-tenured faculty to their second one year contract due to Vice President
25	Saturday	HOMECOMING
27	Monday	Reporting of Mid-Quarter Deficient Grades
27	Monday	Deans notify Personnel Committee of Faculty To Be Reviewed for Tenure and Promotion
27-28	Monday-Tuesday	University System Language Skills Examination (REGENTS TEST)

November

3	Monday	Last Day to Drop Classes Without Penalty
3-14	Monday-Friday	Pre-Advisement and Advance Registration for Winter Quarter
10-11	Monday-Tuesday	Career Fair
13	Thursday	Computer Utilization Committee Meeting
26	Wednesday	Personnel Committee Recommendations Due to Deans (Promotion and Tenure)
27-28	Thursday-Friday	THANKSGIVING RECESS

December

1	Monday	Classes Resume
2	Tuesday	Last Day of Classes
3-5	Wednesday-Friday	Final Examinations
5	Friday	Fall Quarter Ends Vacation for Students and Faculty on 9 Month Contracts Begins
22 January 1	Monday-Thursday	College Closed for Christmas and New Year's Vacation

WINTER QUARTER, 1987*January*

2	Friday	Faculty/Staff
5	Monday	Registration Residence Halls Open - 8:00 a.m. Dining Halls Open - 12:00 Noon
6	Tuesday	First Day of Classes
7-8	Wednesday- Thursday	Schedule Adjustment Period. (ADD & DROP) All additions of classes must be completed during this period. (NO EXCEPTIONS)
12	Monday	Deans Submit Promotion and Tenure to Vice President
16	Friday	Last Day to File Application for June Gradu- ation
16	Friday	Notification of non-renewal of contract to non-tenured faculty in their initial one year contract due to Vice President

19	Monday	Martin Luther King's Birthday (HOLIDAY)
23	Friday	Vice President Submits Promotion and Tenure Recommendations to President

February

2	Monday	Catalog Revisions for 1987-88 due to the Vice President
5-6	Thursday-Friday	Mid-Quarter Examinations
9	Monday	Reporting of Mid-Quarter Deficient Grades
9-10	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST)
9-20	Monday-Friday	Pre-Advisement and Advance Registration for Spring Quarter
11	Wednesday	Academic Council Meeting
12	Thursday	Computer Utilization Committee Meeting
13	Friday	Honors Convocation (All College Assembly)
16	Monday	Recommendations of Promotion to Chancellor's Office
16	Monday	Last Day to Drop Classes Without Penalty
25	Wednesday	Faculty Meeting

March

16	Monday	Recommendations of Tenure to Chancellor's Office
17	Tuesday	Last Day of Classes
18-20	Wednesday-Friday	Final Examinations
20	Friday	Winter Quarter Ends
23-27	Monday-Friday	SPRING BREAK

SPRING QUARTER, 1987*March*

30	Monday	Registration
31	Tuesday	First Day of Classes

April

1	Wednesday	Deans and Directors Submit Annual Class Schedules to Vice President
1-3	Wednesday-Friday	Schedule Adjustment Period (ADD & DROP). All additions of classes must be completed during this period. (NO EXCEPTIONS)
2	Thursday	Faculty place orders for Caps and Gowns for June Graduation
9	Thursday	Computer Utilization Committee
10	Friday	Notification of non-renewal of contract to non-tenured faculty members with two or more years of service to College due to Vice President
17	Friday	GOOD FRIDAY — HOLIDAY
23-24	Thursday-Friday	Mid-Quarter Examinations
27	Monday	Reporting of Mid-Quarter Deficient Grades

May

4	Monday	Last Day for Dropping Classes Without Penalty
4-5	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST)
4-15	Monday-Friday	Pre-Advisement and Advance Registration for Summer Quarter
13	Wednesday	Academic Council Meeting
TBA		Grades Due on Degree Candidates
27	Wednesday	Faculty Meeting
TBA		President's Reception for Seniors

June

7	Sunday	Commencement
9	Tuesday	Last Day of Classes
10-12	Wednesday-Friday	Final Examinations
12	Friday	Spring Quarter Ends

SUMMER QUARTER, 1987

June

22	Monday	Registration
23	Tuesday	First Day of Classes
24-25	Wednesday-Thursday	Schedule Adjustment Period. (ADD & DROP) All additions of classes must be completed during this period. (NO EXCEPTIONS)

July

3	Friday	HOLIDAY — FOURTH OF JULY
20-21	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST)
20-31	Monday-Thursday	Pre-Advisement and Advance Registration for Fall quarter, 1986
20	Monday	Last Day of Classes (Six Week Session)
27	Monday	Reporting of Mid-Quarter Deficient Grades

August

24	Monday	Last Day of Classes
25-26	Tuesday-Wednesday	Final Examinations
26	Wednesday	Summer Quarter Ends

UNIVERSITY SYSTEM OF GEORGIA

MEMBERS OF THE BOARD OF REGENTS

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 ROGER MOSSHART, Assistant Vice Chancellor-Fiscal Affairs-Budgets
 W. CURTIS SPIKES, Assistant Vice Chancellor-Research

OFFICERS OF ADMINISTRATION

- Wendell G. Rayburn President
B.S., Eastern Michigan University; M.A., University of Michigan; Ed.D., Wayne State University.
- Edward J. Hayes Vice President for Academic Affairs
Ph.B., M.A., University of Detroit; Ph.D., Wayne State University.
- Prince Mitchell Vice President for Business and Finance
B.S., Savannah State College.
- Nelson R. Freeman Vice President for Student Affairs
B.S., Savannah State College; M.A., Columbus University.
- Dr. George J. O'Neill Assistant Vice-President for Academic Affairs
B.A., Youngstown State University; M.A., Ph.D., University of Southern California
- Thomas H. Hines Director of Development and College Relations
M.H.S., Lincoln University (Pennsylvania)
- Robert L. Ray Director of Admissions and Records
B.A., University of LaVerne; M.B. Ed., Savannah State College
- Charles J. Elmore Assistant to President
B.S., Savannah State College; M.A., Ph.D., University of Michigan.
- Andrew J. McLemore Librarian
A.B., Morehouse College; M.S.L.S., Atlanta University; M.B.A., Georgia Southern College; J.D., John Marshall Law College.
- Ja. A. Jahannes Dean, School of Humanities and
Social Sciences
B.A., Lincoln University; M.A., M.A., Hampton Institute; Ph.D., University of Delaware.
- Margaret C. Robinson Dean, School of Sciences and Technology
B.S., Savannah State College; M.S., University of Michigan; Ph.D., Washington University.
- Leo G. Parrish Dean, School of Business
B.S.E.E., M.S.I.M., Ph.D., Georgia Institute of Technology.
- Gary F. Norsworthy Dean, Coastal Georgia Center for Continuing
Education Savannah State College-Armstrong State College
B.A., M.A., Ph.D., Florida State University.
- Ronald B. McFadden Director of Developmental Studies
B.A., M.A.T., Brooklyn College; Ph.D., Ohio State University.

THE UNIVERSITY SYSTEM OF GEORGIA

The University System of Georgia includes all state-operated institutions of higher education in Georgia — 4 universities, 14 senior colleges, 15 junior colleges. These 33 public institutions are located throughout the state.

A 15-member constitutional Board of Regents governs the University System, which has been in operation since 1932. Appointment of Board members — five from the state-at-large and one from each of the state's 10 Congressional Districts — are made by the Governor, subject to confirmation by the State Senate. The regular term of Board members is seven years.

The Chairperson, the Vice Chairperson, and other officers of the Board are elected by the members of the Board. The Chancellor, who is not a member of the Board, is the chief executive officer of the Board and the chief administrative officer of the University System.

The overall programs and services of the University System are offered through three major components: Instruction; Public Service/Continuing Education; Research.

INSTRUCTION consists of programs of study leading toward degrees, ranging from the associate (two-year) level to the doctoral level, and certificates.

Requirements for admission of students to instructional programs at each institution are determined, pursuant to policies to the Board of Regents, by the institution. The Board establishes minimum academic standards and leaves to each institution the prerogative to establish higher standards. Applications for admission should be addressed in all cases to the institutions.

A Core Curriculum, consisting of freshman and sophomore years of study for students whose educational goal is a degree beyond the associate level, is in effect at the universities, senior colleges, and junior colleges. This Curriculum requires 90 quarter-credit hours, including 60 in general education—humanities, mathematics and natural sciences, and social sciences— and 30 in the student's chosen major area of study. It facilitates the transfer of freshman and sophomore degree credits within the University System.

Instruction is conducted by all institutions.

PUBLIC SERVICE/CONTINUING EDUCATION consists of non-degree activities, primarily, and special types of college-degree-credit courses.

The non-degree activities are of several types, including such as short courses, seminars, conferences, lectures, and consultative and advisory services, in a large number of areas of interest.

Non-degree public service/continuing education is conducted by all institutions.

Typical college-degree-credit public service/continuing education courses are those offered through extension center programs and teacher education consortiums.

RESEARCH encompasses investigations conducted primarily for discovery and application of knowledge. These investigations include clearly defined projects in some cases, non-programmatic activities in other cases. They are conducted on campuses at many off-campus locations.

The research investigations cover a large number and a large variety of matters related to the educational objectives of the institutions and to general societal needs.

Most of the research is conducted through the universities; however, some of it is conducted through several of the senior colleges.

The policies of the Board of Regents for the government, management, and control of the University System and the administrative actions of the Chancellor provide autonomy of high degree for each institution. The executive head of each institution is the President, whose election is recommended by the Chancellor and approved by the Board.

Institutions of the University System of Georgia

h — On-Campus Student Housing Facilities
Degrees Awarded: A—Associate; B—Bachelor's; J—Juris Doctor;
M—Master's; S—Specialist in Education; D—Doctor's

Universities

Athens 30602
University of Georgia—h; B,J,M,S,D
Atlanta 30332
Georgia Institute of Technology—h; B,M,D
Atlanta 30303
Georgia State University—A,B,M,S,D
Augusta 30912
Medical College of Georgia—h; A,B,M,D

Senior Colleges

Albany 31705
Albany State College—h; B,M
Americus 31709
Georgia Southwestern College—h; A,B,M,S
Augusta 30910
Augusta College—A,B,M,S
Carrollton 30118
West Georgia College—h; A,B,M,S
Columbus 31993
Columbus College—A,B,M,S
Dahlonega 30597
North Georgia College—h; A,B,M
Fort Valley 31030
Fort Valley State College—h; A,B,M
Marietta 30061
Kennesaw College—A,B
Marietta 30060
Southern Technical Institute—h,A,B
Milledgeville 31061
Georgia College—h; A,B,M,S
Savannah 31406
Armstrong State College—A,B,M
Savannah 31404
Savannah State College—h; A,B,M
Statesboro 30460
Georgia Southern College—h; A,B,M,S
Valdosta 31698
Valdosta State College—h; A,B,M,S

Junior Colleges

Albany 31707
Albany Junior College—A
Atlanta 30310
Atlanta Junior College—A
Bainbridge 31717
Bainbridge Junior College—A
Barnesville 30204
Gordon Junior College—h; A
Brunswick 31523
Brunswick Junior College—A
Cochran 31014
Middle Georgia College—h; A
Dalton 30720
Dalton Junior College—A
Douglas 31533
South Georgia College—h; A
Gainesville 30403
Gainesville Junior College—A
Macon 31297
Macon Junior College—A
Morrow 30260
Clayton Junior College—A
Rome 30161
Floyd Junior College—A
Swainsboro 30401
Emanuel County Junior College—A
Tifton 31793
Abraham Baldwin Agri. College—h; A
Waycross 31501
Waycross Junior College—A

University System of Georgia
244 Washington Street, S.W.
Atlanta, Georgia 30334

HISTORY

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." A commission was appointed to procure the necessary grounds and buildings, and to prescribe a course of study that would include those studies required by the Morrill Land-Grant Acts of 1862 and 1890.

The Commission on the School for Negro Students was designated as the Board of Trustees for the School, with perpetual succession subject to the general Board of trustees of the University of Georgia. The Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1 and August 1, 1891, at the Baxter Street School building in Athens, Georgia. Richard R. Wright, the first principal, and three other instructors comprised the faculty. In the following year the school was moved to its present site, which is approximately five miles southwest of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. The school was given the name "The Georgia State Industrial College for Colored Youths," and its faculty consisted of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm. The College awarded its first baccalaureate degree in 1898.

During the thirty years that Major Wright served as President of the College, enrollment increased from 8 to 585 and the curriculum was expanded to include a normal division in addition to four years of high school. Training in agriculture and the mechanical arts also was begun.

The first women students were admitted as boarders in 1921; the first summer session was conducted in 1922; and in 1925 the governing body of the College was changed from a Commission with "perpetual succession" to a Board of Trustees whose members were appointed for four year terms. All of these changes occurred during the presidency of C.G. Wiley, the first alumnus of the College to become president, who served from 1921 to 1926.

Under President Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal departments were discontinued and the school became a four-year college. In 1931, when the University System was placed under a Board of Regents, the College began to offer additional bachelor's degree programs with majors in English, the natural sciences, social sciences, and business administration, as well as in agriculture and home economics.

Until 1947, the college served as the State land-grant institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshmen Week, and the Cultural Artists Series. Expanded programs of students personnel services, public relations, a reading clinic, and an audio visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the college on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the college in March 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions — Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Timothy C. Meyers served as acting president from the time of Dr. Payne's death until November 1, 1963. Meyers had served as dean of the faculty since September, 1953.

Under the leadership of Dr. Howard Jordan, Jr. (November 1, 1963 through January 31, 1971), significant, far-reaching and innovative programs were initiated in all aspects of the College's development. Curricula improvements in the general education program in teacher education, and in business administration, as well as other areas, were carried forward. A graduate studies program in elementary education was initiated in the summer of 1968. The mantle of educational leadership at Savannah State College passed from Dr. Jordan to Dr. Prince A. Jackson, Jr., on February 1, 1971.

Many of the improvements and innovations begun during President Jordan's administration came to fruition during the first year of Dr. Jackson's tenure. At the time of this appointment, the new President was chairman of the Division of Natural Sciences and director of the Institutional Self-Study which resulted in reaccreditation of the College by the Southern Association of Colleges and Schools in December, 1971. During that same year the College was accredited by the National Council for the Accreditation of Teacher Education (NCATE). The three engineering technology programs—civil, electronics, and mechanical—were accredited by the Engineers' Council for Professional Developments in 1973. President Jackson, the second alumnus of the College to become its President provided vigorous and dynamic leadership geared to the task of increasing all of the College's resources and employing them to meet more effectively the rising aspirations of Black Americans and other disadvantaged persons for a richer and more rewarding life. Dr. Jackson served until March 27, 1978, when he was succeeded by Dr. Clyde W. Hall, who at the time of his appointment as acting president was chairman of the Division of Technical Sciences.

In September 1979, due to the desegregation plan mandated by the Department of Health, Education and Welfare, the faculty and students in the Division of Education at Savannah State College were transferred to Armstrong State College and Savannah State College received the faculty and students in the Division of Business from Armstrong State College in a historic program swap. This program swap resulted in the creation of a new School of Business at Savannah State College during the 1979-80 academic year.

Additionally, on April 13, 1980 the Board of Regents of the University System of Georgia approved a new Administrative organization plan for Savannah State College for 1980-81. Under the plan Savannah State was reorganized into three

schools — Business; Humanities and Social Sciences; and Sciences and Technology. On September 15, 1980, Dr. Wendell G. Rayburn became the eighth president of Savannah State College.

Buildings and Grounds

The campus, comprising 165 acres, presents a unique setting of natural beauty. Among its 38 buildings are two that were constructed during the administration of Major Richard R. Wright: Hill Hall (1901), and Hammond Hall (1915), both of which have been extensively renovated in recent years. Hill Hall is occupied by most of the Federal Programs and Extended Services; and Hammond Hall is currently unoccupied.

W.K. Payne Hall, a two-story air conditioned building, is a main classroom building. In addition to its fifteen classrooms, it also provides office space for thirty-two instructors (including four departmental offices), data processing facilities, a secretarial center, a language laboratory, a reading clinic and the Learning Resource Center. Most of the classes in the English, Social Sciences, and Modern Languages are held in this facility.

Other classroom buildings, and the Departments that each house are Herty Hall (1937)—Mathematics and Physics; Hubert Technical Sciences Center (1960)—Engineering Technology and Chemistry; Morgan Hall (1936) and Morgan Hall Annex; J. F. Kennedy Fine Arts Center (1967)—Fine Arts; the Griffith-Drew Center for the Natural Sciences (1971)—Biology; and Wiley-Wilcox Gymnasium Complex — Physical Education.

Completing the physical facilities of the campus are those buildings used for activities that are auxiliary to the instructional process, those used as student residence halls and those used to house the maintenance and operational staffs. The Martin Luther King-Varnetta Frazier Student Center Complex (1969) houses the Student Counseling Offices, the College Dining Hall, the Post Office, and the offices directly involved in student activities. Adams Hall (1931), formerly used as the dining hall, is now an annex of the Student Center, while Powell Hall, constructed in 1932 as the Laboratory School for the College, houses the student-created Ethnic Culture Center.

Three new buildings were completed in 1976. A new library, destined to be the first circular-shaped library in the state, was occupied that year and serves as the hub for the other buildings located on the southern portion of the campus. Adjacent to the new library is the Helen Adele Whiting Hall. This building houses the School of Business. The third new building is the NROTC Armory located adjacent to the stadium. A portion of this building serves as an athletic field house. In 1982 the President's House and a Health Services Building were completed.

Residence halls include — Smith-Bowen for women (1971) and Melvin Bostick Men's Residence Hall (1972). Both dormitories are air-conditioned, as is A. E. Peacock Hall (1967) and Lockette Hall (1965). Peacock Hall accommodates 180 men and Lockette Hall, 180 women. Lester Hall (1985), a dormitory for young women, completes the list of residence halls now used for housing accommodations. Camilla Hall (1938) has been converted to married student housing.

Wright Hall (1951), a former dormitory, is being utilized to provide additional academic and administrative office space. The studio for FM radio station WHCJ is also in Wright Hall.

Most of the plant operations are directed from Medgar Evers Plant Operations Complex, a modern facility that houses the main offices for Plant Operations and the College Warehouse. Housekeeping services are now housed in the former field house.

PURPOSE AND OBJECTIVES OF THE COLLEGE

Savannah State College is a four-year, co-educational unit of the University System of Georgia, strongly committed to the development of the intellectual, social, and professional competence of individuals. Recognizing its historic commitment to the educational needs of the Black student as mandated in its original charter of 1890, the College offers quality education to all students. The Institution offers programs designed to assist students to become active and creative citizens and to attain their fullest spiritual and moral stature.

Located as it is in an important urban and coastal area, the College is committed to a major and continuing interest in developing and implementing curricular, co-curricular, and public service activities that address the issues, concerns, problems, resources, and opportunities of urban and coastal communities. Consistent with the above philosophy, the objectives established by the Institution should enable its students:

1. To acquire the knowledge and skills necessary for the satisfaction of personal and societal needs;
2. To develop individual abilities and intellectual curiosity through research and other scholarly activities;
3. To acquire specialized training in a chosen field;
4. To broaden their understanding of and appreciation for their own and other cultures;
5. To develop an appreciation for mental, emotional, and physical health;
6. To develop an awareness of social and civic responsibility;
7. To enhance their understanding of the problems and opportunities of urban and coastal communities; and
8. To contribute to the resolution of urban and coastal area problems through participation in a limited number of community oriented projects.

SCHOOLS, DEGREES, AND PROGRAMS

SCHOOL OF BUSINESS *Bachelor of Business Administration*
Majors: Accounting, Economics, Finance and Banking, General Business Administration, Information Systems, Management, Marketing, and Administrative Services.

Master of Business Administration

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES *Bachelor of Arts*
Majors: English Language and Literature, Music, History, Political Science, and Mass Communications.

Bachelor of Science

Majors: Criminal Justice and Social Sciences

Bachelor of Social Work

Major: Social Work, Sociology

Master of Public Administration

SCHOOL OF SCIENCES AND TECHNOLOGY *Bachelor of Science*
Majors: Chemistry, Biology, Marine Biology, Environmental Studies, Mathematics, Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, Process Engineering Technology, Computer Science Technology, Physics.

Associate of Science Degree

Area: Marine Science Technology

*Associate of Applied Science Degree

Areas: Civil, Design and Drafting, Electronics, and Mechanical Technology, Computer Technology, Chemical Engineering Technology.

Savannah State College comprises three schools: Business; Humanities and Social Sciences; and Sciences and Technology.

Through its three schools, the College awards the baccalaureate degree, with majors in accounting, economics, finance, general business administration, information systems, management, marketing, administrative services, English Language and Literature, music, criminal justice, history, political science, social work, sociology, chemistry, biology, marine biology, environmental studies, mathematics, civil engineering technology, mechanical engineering technology, electronic engineering technology, process engineering technology, mass communications, computer science technology, physics.

An Associate of Science degree is offered in marine science technology. Additionally, Savannah State College offers an Associate of Applied Science degree in a dual arrangement with the Savannah Area Vocational-Technical School in the areas of civil, design and drafting, electronic and mechanical technology.

*Two year program sponsored jointly with the Savannah Area Vocational-Technical School.

Minor fields of specialization are available in hotel management, restaurant management, real estate, accounting, economics, finance, information systems, general business administration, management, marketing, office administration, English, Mass Communications, Religious and Philosophical Studies, French, Spanish, German, art, music, biology, chemistry, mathematics, electronic/physics, computer science, naval science, Black Studies, criminal justice, history, political science, psychology and engineering technology.

Minor programs are to be approved by a student's major department in consultation with the minor department.

ROTC PROGRAMS:

Through the college's Army and Naval ROTC Programs Savannah State College students can prepare for commissioned service as regular or reserve officers in the Army, Army National Guard, Navy, or Marine Corps, commensurate with earning their degree. The Army and Naval ROTC Programs constitute an academic minor in military and naval science, respectively.

STUDENT AFFAIRS

UNDERGRADUATE ADMISSION TO THE COLLEGE

GENERAL INFORMATION

A person who wishes to enroll at Savannah State College must file an application form which can be obtained from the Director of Admissions and Records. If the applicant is a high school student he should file his application as early as possible during his senior year. All applications must be filed at least twenty days prior to the date of registration for the quarter in which the applicant plans to enroll. An applicant must furnish evidence indicating that he or she has the ability to do college level work.

Each applicant for admission is required to submit a properly completed application form, a transcript or transcripts of previous academic work, test scores from the Scholastic aptitude Test (SAT) of the College Entrance Examination Board, and a \$10.00 nonrefundable application fee. Transcripts should be mailed directly from the applicant's former schools to the Director of Admissions and Records. Information regarding the Scholastic Aptitude Test may be obtained from high school counselors, any college that is a part of the University System of Georgia, or from the College Entrance Examination Board, Post Office Box 592, Princeton, New Jersey 08540. The applicant should request that his scores be reported to the Director of Admissions and Records, Savannah State College.

Savannah State College reserves the right to refuse to accept applications at any time when it appears that students already accepted for the quarter for which the applicant wishes to enroll will fill the institution to its maximum capacity. The college also reserves the right to reject an applicant who is not a resident of Georgia.

Savannah State College reserves the right to require that any applicant for admission take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations.

MINIMUM REQUIREMENTS FOR REGULAR ADMISSION TO UNIVERSITY SYSTEM OF GEORGIA INSTITUTIONS

The following course of study is required of students graduating from high school in the spring of 1988, or later, who plan to enroll in public junior college, senior college, or university programs leading to the baccalaureate degree.

Course (Units)	Instructional Emphasis
English (4)	<ul style="list-style-type: none"> — Grammar and usage — Literature (American & World) — Advanced composition skills
Mathematics (3)	<ul style="list-style-type: none"> — Two courses in algebra and one in Geometry
Science (3)	<ul style="list-style-type: none"> — Physical Science — At least two laboratory courses from Biology, Chemistry, Physics or related areas of science
Social Science (3)	<ul style="list-style-type: none"> — American History — World History — Economics and Government
Foreign language (2)	<ul style="list-style-type: none"> — Two courses in one language emphasizing speaking, listening, reading, and writing.

The courses outlined above represent the *minimum* standards set forth by the Board of Regents.

REQUIREMENTS FOR REGULAR ADMISSION

To be admitted as a regular degree-seeking student an applicant must meet the conditions specified above and in addition:

1. Must be a graduate of an accredited or approved high school, or he must have completed successfully the General Education Development (GED) Test. Proof of this completion must be verified by the GED certificate.
2. Must have taken the Scholastic Aptitude Test (SAT) and achieved a score of 750 or more on the combined verbal and mathematics section. Student scoring below 750 (or below 330 on either math or verbal sections) may be considered for Admission to the Developmental Studies Program.
3. Pay a ten dollar non-refundable application fee.

REQUIREMENTS FOR CONDITIONAL ADMISSION

A student who does not meet the above requirements for regular admission will be conditionally admitted to the college if he meets *at least one* of the following specific requirements:

1. high school point average of 1.8 or better (this grade point average is to be based on academic course-work only)

OR

2. a score of not less than 250 on the verbal section of the Scholastic Aptitude Test

OR

3. a score of not less than 280 on the mathematics section of the Scholastic Aptitude Test

CONDITIONAL ADMISSION

Applicants for admission whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test are less than 750, will be granted Conditional Admission until they have taken the Basic Skills Examination (BSE) in English, Reading, and Mathematics, and have achieved satisfactory scores on each test. Those students whose scores on the BSE are satisfactory will be granted regular admission. The "conditional admission" status will be continued for those students whose scores are unsatisfactory on any one of the BSE components. These students will be referred to the Department of Developmental Studies where they will be required to follow a course of study especially designed to assist them in overcoming any deficiencies in knowledge or skills revealed by the test results. They will be granted regular admission status and permitted to take college level courses only after they have achieved passing scores on the Basic Skills Examination.

DEVELOPMENTAL STUDIES PROGRAM

Each institution in the University System of Georgia has been mandated by the Board of Regents to establish a separate Department of Developmental Studies. This Department is charged with assisting those students admitted to the college who fail to attain predetermined levels of competencies in writing, reading, and mathematics. The Department has a separate budget and staff and reports directly to the Chief Academic Officer.

Regents guidelines specify that entering freshmen scoring below 330 on either the **Scholastic Aptitude Test** (SAT) verbal or SAT math shall be required to take the **Basic Skills Examination** (BSE) in either English, reading, or mathematics to determine if that student needs any of the aforementioned courses. Savannah State College has established a total SAT score of 750 as the cut off determinant for taking the BSE.

The BSE is given as a placement test each quarter, prior to the start of the quarter. In addition, the BSE is administered as an exit test after the successful completion of Developmental Studies course work. Developmental Studies courses do not earn credit toward graduation. The current exit scores for English, reading, and mathematics are 68, 68, and 71, respectively. Students are expected to complete Developmental Studies course work within one (1) academic year or less. Counseling is an integral part of the Program.

TRANSFER STUDENTS

General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from other colleges, insofar as the regulations are pertinent to the applications of transfer students.
2. A student transferring from another college will supply the Director of Admissions and Records with transcripts of his records at colleges previously attended. These transcripts must be sent directly from the registrars at the previous colleges to the Director of Admissions and Records. The Director of Admissions and Records will determine the applicant's academic qualifications on the basis of these transcripts. An applicant will not be considered for admission unless transcripts of his record show honorable discharge from colleges attended.
3. Transfer applicants who will enter the less than 45 quarter hours must meet entrance requirements of both freshman and transfer applicants, and will be required to submit their high school records as well a transcripts of previous college records.
4. Transfer applicants must pay a \$10.00 non-refundable application fee.
5. Persons who have earned grades of "C" or higher in courses taken in accredited colleges and who, in the judgment of the Committee on Admissions, have presented otherwise satisfactory credentials may be admitted.

Those courses that are equivalent to courses offered at Savannah State College will be accepted toward advanced standing, provided that a grade of "C" or higher was earned. Students transferring from any unit within the University System of Georgia will be credited for courses on the same basis as students originally enrolled at Savannah State College.

6. Credit allowed for extension, correspondence, CLEP examination or military service schools shall not exceed a total of 45 quarter hours.
7. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level. No more than total of 135 quarter hours will be acceptable as transfer credit.
8. The college reserves the right to *reject* any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgement of the college on this question shall be final.
9. The evaluation of transfer credit is given a student upon admission. The college reserves the right to disallow transfer credit for courses if the student's subsequent grades in required courses in the same subject fall below average.

Provisional Admission

A student who has been a graduate from an accredited high school for a period of eight years or more may be granted provisional admission to the college without submitting scores on the Scholastic Aptitude Test. The student will be required to take institutional diagnostic tests for course placement. A student admitted under the Provisional Admission Category must complete 30 hours of college credit with a minimum of 2.0 grade point average in order to be granted regular admission to the college.

TRANSIENT STUDENTS

A student who has taken work in another college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

The following policies shall govern the admission of students with transient status:

1. The admissions officer of Savannah State College must be furnished evidence that the institution the student previously attended was an accredited or approved institution.
2. An applicant will be accepted as a transient student only when it appears that the applicant's previous academic work is of a satisfactory or superior quality. The Director of Admissions and Records shall have the right to require the applicant to submit a transcript of his previous college work.
3. An applicant for admission as a transient student must present a statement from the dean or registrar of the institution that he last attended recommending his admission as a transient student. A transcript is not normally required.

SPECIAL STUDENTS

Persons who desire to enroll in a course or courses but who do not intend to complete a specific degree or other program may register as special students. A total of 30 quarter hours may be taken as special student. Any special student who decides subsequently to enroll in a regular college program must then satisfy all of the requirements of regular admission.

READMISSION OF FORMER STUDENTS

A student who has not been enrolled at Savannah State College for one or more quarters must apply for readmission on a form provided by the Admission Office. This requirements does not apply to students who do not register for courses during the summer quarter. A former student who has not attended another college since leaving Savannah State may be readmitted provided he is not on suspension at the time he wishes to reenter. A former student who has attended another college since leaving Savannah State must meet requirements for readmission as a transfer student or as a transient student, whichever is applicable. A student who is readmitted after an absence from the College for more than two years must meet degree requirements as listed in the bulletin in effect at the time of his return. An additional application fee is not required.

AUDITORS

Regularly enrolled students at Savannah State College may be permitted to audit courses, provided permission is obtained from the instructor in charge of the course and the Vice-President for Academic Affairs.

Members of the faculty or staff of Savannah State College may audit courses, provided permission is obtained from the department concerned and the Registrar.

ADMISSION OF INTERNATIONAL STUDENTS

Savannah State College subscribes to the principles of international education and to the basic concept that only through education and understanding can mutual respect, appreciation and tolerance of others be accomplished.

A student from a country other than the United States who is interested in attending Savannah State College, should write to the Director of Admissions and Records, Savannah State College, Savannah, Georgia 31404, U.S.A. The student must meet the following requirements for admission:

1. A completed application for admission with a \$10 application fee, which must be in the form of a money order or a certified check. This application must be submitted at least 60 days prior to the beginning of the quarter for which the student wishes to be admitted.
2. Official transcript(s) of academic record mailed to Admissions and Records Office with an official translation.
3. Scholastic Aptitude Test of the College Entrance Examination Board may be taken at the testing center nearest the applicant's home. The scores must be sent to Savannah State College.
4. A prospective student must submit evidence of financial ability to pursue his education full-time in this country. No financial aid is available for international students. All international students are required to pay out-of-state tuition, unless they are under the sponsorship of an approved local organization and it is authorized by the Director of Admissions and Records.
5. Present TOEFL (Test of English as a Foreign Language) scores which demonstrate proficiency in the English language. English language proficiency is necessary to enroll in a full academic course of study which is conducted exclusively in English. Although TOEFL scores must indicate a level of proficiency required for admission, students may be required to enroll in Developmental Studies English. The minimum acceptable TOEFL score of 500 is required for admission for international students. Those students required to take Developmental Studies English will be allowed a maximum of three quarters to complete these English courses and attain a satisfactory level of English proficiency; students who do not complete the English courses and attain proficiency will be ineligible to continue enrollment.

All students must be prepared to obtain adequate health and accident insurance while attending Savannah State College. Prior to registration all international students must provide proof of insurance policy and local street address.

Applicants needing a student visa will be required to submit a deposit of \$1,700 or more before a Certificate of Eligibility will be issued. Continuation of the visa after the first calendar year requires further proof and certification of the student's financial ability.

International students with a student visa are required to carry a full course of study in every quarter except the summer quarter. A full course of study at Savannah State College is twelve (12) quarter hours for undergraduate and ten (10) quarter hours for graduate students.

Immigration Form I-20 (Certificate of Eligibility), needed to obtain a student VISA, will not be issued until the applicant has (1) been accepted by the Office of Admissions and Records, (2) paid the enrollment tuition and fees, and (3) submitted a financial statement indicating how expenses will be met while attending the College.

The refund of tuition and fees will be in accordance with the policies and procedures outlined in the College Catalogue.

There is an Office of International Students' Program and Services. The Coordinator of that office is Ms. Karen Penick (Room 111, Wright Hall), who will assist international students in their needs and interests on campus and within the community. The Foreign Students' Advisor is Dr. K. B. Raut (Room 231, Griffith-Drew Hall) and he will assist with problems concerning immigration requirements and admissions procedures. There is also an International Student Association and an International Soccer Team.

COLLEGE CREDIT BY EXAMINATION AND EXPERIENCES

In an attempt to individualize the education of students, a program allowing credit by examination has been initiated at the College. Through this program a student may bypass subjects he or she has already mastered and pursue more advanced work.

A student may earn up to a total of forty-five hours of credit by examination on the basis of College Level Examination program (CLEP) scores, scores earned under the Advanced Placement Program (AP) of the College Board and/or military service schools.

To earn CLEP credits on the general examination a student must obtain scores at or above the thirty-fifth percentile to receive college credit.

To earn CLEP credit on the subject areas examinations, a student must obtain scores at or above the fiftieth percentile. In addition, a student may earn credit for each AP Examination on which he achieves a score of three or higher.

Credit will be granted for military service schools and experience as recommended by the Commission on Accreditation of Service Experiences of the American Council on Education.

Inquiries concerning test administration dates, validation of CLEP or AP scores or other interpretation should be directed to the Admission or Comprehensive Counseling Offices of the College.

REGENTS STATEMENT OF DISRUPTIVE BEHAVIOR

The following is the policy of the Board of Regents regarding disruptive behavior in any institution of the University System. The rights, responsibilities and prohibitions contained in this statement are incorporated as a part of these regulations.

The Board of Regents of the University system of Georgia reaffirms its policies to support fully freedom of expression by each member of the academic community and to preserve and protect the rights and freedoms of its faculty members to engage in debate, decision, peaceful and nondisruptive protest and dissent. The following statement relates specifically to the problem described below. It does not change or in any way infringe upon the Board's existing policies and practices in support of freedom of expression and action. Rather it is considered necessary to combat the ultimate effect of irresponsible disruptive and obstructive actions by students and faculty which tend to destroy academic freedom and the institutional structures through which it operates.

In recent years a new and serious problem has appeared on many college campuses in the nation. Some students, faculty members, and others have on occasion engaged in demonstrations, sit-ins, and other activities that have clearly and deliberately interfered with the regular orderly operation of the institution concerned. Typically, these actions have been the physical occupation of a building or campus area for a protracted period of time or the use of verbal or written obscenities involving indecent or disorderly conduct.

These actions have gone beyond all heretofore recognized bounds of meetings for discussions, persuasion, or even protest in that: (1) acquiescence to demands of the demonstrations is the condition for dispersal, and (2) the reasonable and written directions of institutional officials to disperse have been clearly ignored. Such activities thus have become clearly recognizable as an action of force, operating outside all established channels on the campus, including that of intellectual debate and persuasion which are at the heart of education.

The Board of Regents is deeply concerned by this new problem. Under the Constitution of the State of Georgia, under all applicable court rulings, and in keeping with the tradition of higher education in the United States, the Board is ultimately responsible for the orderly operation of the several institutions of the University System and the preservations of academic freedom in these institutions. The Board cannot and will not divest itself of this responsibility.

Of equal or even greater importance, such actions of force as had been described above destroys the very essence of higher education. This essence is found in the unhampered freedom to study, investigate, write, speak, and debate on any aspect or issue of life. This freedom, which reaches its full flowering on college and university campuses, is an essential part of American democracy, comparable to the jury system or the electoral process.

For these reasons and in order to respond directly and specifically to this new problem the Board of Regents, stipulates that any student, faculty member, administrator, or employee, acting individually or in concert with others, who clearly obstructs or disrupts, or attempts to obstruct or disrupt any teaching,

research, administrative, disciplinary or public service activity, or any other activity authorized to be discharged or held on any campus of the University System of Georgia is considered by the Board to have committed an act of gross irresponsibility and shall be subject to disciplinary procedures, possibly resulting in dismissal or termination of employment.

The Board reaffirms its belief that all segments of the academic community are under a strong obligation and have a mutual responsibility to protect the campus community from disorderly, disruptive, or obstructive actions which interfere with academic pursuits or teaching learning and other campus activities.

The Board of Regents understands that this policy is consistent with resolutions adopted by the American Colleges in January, 1968, and by the Executive Committee of the Association for Higher Education in March, 1968, condemning actions taken to disrupt the operations of institutions of higher education.

STUDENT LOAD

Under ordinary circumstances a student may enroll in courses up to but not in excess of eighteen (18) quarter hours. Exceptions may be made for students who are within two quarters of graduation, provided that total hours carried for credit do not exceed twenty-one (21). Credit for an overload will not be granted, however, unless it has been recommended by the students' advisor and approved by the Academic Vice-President and the dean of the school.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D is the lowest passing grade. Grade distinctions and quality points values are:

Grade	Meaning	Quality Point Value
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour
WF	Withdrew, failing	0 per credit hour
P	Pass	0 per credit hour
IP	In Progress	0 per credit hour

The grade "F" indicates that the student has failed to meet the minimum requirements of the course.

All courses in the major, minor, professional education or freshman English in which the grade of D is earned must be repeated. The grade of D, like higher grades, can be raised only by repeating the course in which the D was earned.

The following grades also used, but are not included in the determination of the grade of the grade point average.

I (Incomplete) — This symbol indicates that a student was doing satisfactory work, but for non-academic reasons beyond his control, was unable to meet the requirements of the course. The student may remove the I by completing the remaining requirements within three quarters of residence: otherwise the grade of I will be changed to the grade of F by the Registrar. It is the student's responsibility to initiate the completion of unfulfilled requirements with the instructor.

W (Withdrawal) — This symbol indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after the midpoint of the total grading period (including final examinations), except in cases of hardship as determined by the Academic Vice-President.

ACADEMIC REGULATIONS

Academic Advisement

Each student at Savannah State College is assigned an advisor who has the responsibility of assisting the student in planning and completing an appropriate academic program. The Dean of the Academic School provides general direction to the advisement program, with department heads coordinating activities within their respective areas, assigning advisors to students majoring in the academic discipline(s) for which division or department is responsible. The director of Developmental Studies assigns advisors from his staff to those students who are undecided about the discipline in which they will major. Each student is required to plan his or her academic program with the advisor's assistance, and to obtain the advisor's approval of his schedule of courses each Quarter. Each advisor has the responsibility of counseling with his advisees about the appropriateness of the academic program they have selected as well as the appropriateness of the schedules of courses selected by the advisee to the timely completion of that program. In addition, the advisor has the responsibility of monitoring the academic progress of his advisees, and of assisting them in evaluating their progress and in making decisions about their present and future academic careers based upon that evaluation.

Advisors of junior and senior students will concern themselves specifically with the student's progress toward graduation, maintaining a continually updated record of courses taken and grades received. The advisor will also assist his advisees in completing the Application for Graduation, and will certify to the Director of Admissions and Records that all requirements had been met up to the time that the Application was prepared.

CLASS ATTENDANCE

Savannah State College endeavors to provide optimum conditions for student learning. Class attendance is, therefore, required of students to ensure they will be exposed to the many classes, laboratories and related experiences that are provided for their benefit. It is recognized that extenuating circumstances may at times make it difficult for students to attend every class meeting. Should a student be unable to attend a class, it is his/her responsibility to notify the professor of the reasons for such absences, and to arrange with the professor the conditions under which any required work that was missed may be made up. Credit may not be awarded for any course if the number of absences exceeds the number of times that the class meets per week.

During the first week of each quarter, professors will notify each class of the attendance policy, emphasizing what constitutes excessive absences, and the penalty therefor. A student may appeal any absence-related decision of a professor to the department head, to the Dean of the professor's school, and ultimately to the Vice President for Academic Affairs.

V (Audit) — This symbol indicates that a student was given permission to audit the course. Students may not transfer from audit to credit or vice versa.

K (Credit) — This symbol indicates that a student was given credit for the course via a credit by/examination program approved by his department.

REPORTING OF GRADES

At Mid-quarter, and at the end of the quarter each faculty member submits to the Office of Admissions and Records the Grade Reports for each of his classes. These Reports are prepared in multiple copies, with copies for the Director of Admissions and Records, the Academic Vice-President, the Department head, and the Instructor. In addition, each student receives a Grade Report at the end of each quarter containing the grades and credit hours earned in each course in which he was enrolled, his grade-point average for the quarter, and his cumulative grade-point average.

Mid-quarter grade reports contain grades for students whose work in a course is below the C level at mid-quarter. The Office of Admissions and Records sends copies of such reports to the students, their parents or guardian(s), and to the department heads.

CHANGES IN GRADES

Once a grade has been reported to the Office of Admissions and Records it can be changed only under the following conditions:

1. Upon presentation to the Dean of the School of conclusive, documentary evidence that the grade was reported in error;
2. By following the procedure of removal of an I (incomplete) grade; or
3. Upon the recommendation by a committee appointed to conduct a hearing of a student's challenge of a grade, and the acceptance of that recommendation by the Vice President.

FORGIVENESS CLAUSE

"The College *will not* count the quarter hours and quality points if a course is repeated and passed with a grade higher than "D." All grades will remain on the transcript. Adjusted grade point averages will be computed on each quarter and used as the official average."

GRADE CHALLENGES BY STUDENTS

A student who feels that he has received an unfair grade in any course may challenge that grade by writing a letter of appeal within 7 days to the head of the department in which the course was offered. Upon receipt of an appeal letter the department head consults within 7 days with the instructor, either with or without the student, in an effort to effect a resolution. If a resolution satisfactory to the student is not effected, the department head may appoint a Review Committee (exclusive of both the department head and the instructor). The Review Committee, after hearing both the instructor and the student, submits its report and recommendation to the Academic Vice-President (through the department head). If the Vice-President accepts the Review Committee's recommendation that the grade be changed or if he reverses a recommendation that a grade not be changed, he directs the Director of Admissions and Records to make the

appropriate change on the student's record. The student must show adequate evidence of unfair grading for the department head to grant a hearing.

CALCULATING THE CUMULATIVE AVERAGE

The cumulative grade point average will be calculated by dividing the number of hours in all courses attempted in which a grade of A, B, C, D, F, or WF has been received into the number of grade points earned. The cumulative grade point average will be recorded on the student's permanent record. Institutional credit shall in no way affect the cumulative grade point average.

THE HONORS PROGRAM

- A. *Educational Opportunities for Superior Students* — The Honors Program is designed to give special attention to those students with unusually high academic credentials. Objectives of the Honors Program are: (i) to provide opportunities for high ability students to undertake studies in interdisciplinary (biology/chemistry), cross disciplinary (applied sociology/gerontology/biosociology), combined (history/literature, mathematics/engineering technology) or individual (applied biology, human development, econometrics, nutrition) majors; (ii) to implement an early admissions program (from the eleventh grade) and by permitting able high school students to begin their college work while still in high school; (iii) to implement an advanced placement program that will permit appropriately qualified students to claim exemption and/or credit from selected courses by successfully completing prescribed examinations; (iv) to create an environment wherein honor students can respond (along with their peers) to the challenge of enriched alternatives to the regular curriculum and more fully develop their special talents, aptitude and/or potential; (v) to enhance and stimulate the development of scholarship, initiative, self-discipline, identity, self-esteem, purpose and autonomy in students; (vi) to provide an opportunity for the superior student to do independent study and interdisciplinary research; (vii) to transcend the bonds of traditional faculty and student relationships and to promote greater intellectual exchange and mutual respect; (viii) to serve the needs of students by providing opportunities for them to win honors recognition in their majors; (ix) to enhance the intellectual environment in the College.
- B. *Educational Enrichment Experiences and Activities for Qualified Students* — The proposed honors program has been developed for students of exceptional academic ability. At the same time, it is obvious that the College may not be able to provide all the opportunities, challenges and experiences required by honors students. It is thus hoped that after the approval and implementation of his honors program, appropriate interinstitutional/cooperative arrangements will be made with governmental, industrial, and civic organizations for the purpose of providing internship/externship experiences for qualified students. Organizations that can provide these opportunities include the various national laboratories of the Department of Energy; laboratories of the Defense Department, the Environmental Protection Agency, the Departments of Agriculture and Commerce, the

National Oceanographic and Atmosphere Administration (NOAA) and the National Aeronautics and Space Administration (NASA). Many of these organizations can also provide research facilities and supervision of undergraduate theses.

- C. *Recognition of Productive Scholarship, Academic Achievement and Honor Societies* — Savannah State College currently recognizes academic achievement in each of three ways; (a) through the award of certificates and/or scholarships at honors convocation(s); (b) through placement of students on honor rolls and dean's lists; and (c) through special designation at commencement exercises. It is the opinion of the committee that while these efforts are commendable, they should be augmented. Additional rewards of productive scholarship should include the award of gold, silver, and bronze keys as well as certificates of merit and appropriate financial awards at annual conventions.

It is recommended also that existing honor societies be recognized by (a) including a listing and (program) descriptions of honor societies in all official College publications, especially the catalog. Representatives of existing honor societies should be included in the membership of any honor society formed to provide for the co-curricular activities of honor students.

ORGANIZATION OF THE PROGRAM

- A. *Honors Courses and Components* — The honors program consists of the following: (a) a freshman honors component, (b) a general honors or departmental honors component, (c) an institutional honors component and (d) an honors degree component. Since in every facet of honors course work, greater depth of focus is emphasized, the following categories of honors courses are being proposed; (i) special courses developed and selected for honors candidates; (ii) separate honors sections of existing courses, (iii) special honors, laboratory projects, and discussion sections in regular courses; and (iv) individual research projects usually culminating in a term paper.

- B. *Advanced Placement of Superior Students* — Another element of the honors program is advanced placement of students.

The advanced placement status (permitting the waiver of courses and/or the exemption of coursework with credit) may be attained for freshman and transfer students through the achievement of appropriate scores on examinations administered by the College Board, the College Level Equivalency Program (CLEP) examinations administered by Savannah State College, credit by examination tests of the College Board and exemption examinations administered by various departments. Another element of the honors program is the early admissions program described below.

- C. *Early Admissions* — This phase of the honors program will be supervised activity designed to provide an opportunity for qualified students to complete their freshman year at Savannah State College. This may take two forms: a student may be admitted from the eleventh grade or may enroll in college classes while still in high school. In either instance, the student will be accorded full freshman status. Another early admissions program to be pursued is a pre-freshman summer project which will permit the enrollment of a student in the summer quarter of his or her graduation

from high school. Details of these programs will be provided in a separate report on Advanced Placement.

OPERATION OF THE (HONORS) PROGRAM

Admission Requirements: Procedures — (1) A prospective student applies to the Honors (Advisory) Council for certification as an honors candidate. This certification will be based on a review of past academic experiences and/or achievements, recommendations from high school/college instructors/professional references, and personal interviews. Application can also be made in person or by mail by students who are not in residence, however, only students admitted to the College will be considered. (ii) Prospective freshman students should apply for admission several weeks prior to their matriculation into the College. Successful applicants will participate in a summer orientation program, during which they will be introduced to honors advisers and given the opportunity to discuss their academic goals relative to the program. Entering freshman who do not participate in the orientation program will be assigned advisers, at registration. (iii) Students currently enrolled in college programs should apply in the Honors Program Office, usually several weeks prior to a given registration period. Automatic admission will be granted to students whose cumulative grade point average (GPA) is 3.50 or higher. Applications from students whose GPA is between 3.0 and 3.50 will be considered individually; in general, however, only students who have passed the Regents Language Skills Examination (LSE) will be eligible for institutional honors (implies maintenance of an honors status in both major and non-major areas). Transfer students (from junior and/or senior colleges) may be admitted to the honors program on the basis of appropriate advanced standing or placement. In such instances, retroactive honors credit for appropriate honors courses taken at other institutions will be awarded only after a careful review of a student's academic record.

Sophomore Honors

Sophomore honors will be conferred upon a student who has completed a minimum of 30 of his/her first 90 quarter credits at the College (with at least 5 honors credit in the humanities, 5 in the social sciences, and 5 credits in the physical, applied, or biological sciences; a grade of B or better is required. In addition, the student must also maintain a minimum grade point average (over all) of B (3.0), on a four point scoring system (A = 4.0). Eligibility for this designation will be determined at the end of the quarter in which a student completes 81 quarter credits.

Prior scholastic recognition such as sophomore honors is not a prerequisite for graduation with honors; however, substantial participation in the honors program during the first two years will assist the student in preparing for the last two years while also facilitating earning of an honors degree.

B. Retention of Students in the Program — (1) Honors candidates may elect honors courses provided that prerequisites for such courses are met. Thus freshmen in the honors program may elect one sophomore level course each quarter; similarly, sophomore honors candidates may elect one junior level course each quarter. Juniors and seniors (in appropriate departments

and schools) may take graduate courses — with prior approval of the instructors, the head of the student's major departments and deans of their schools—and may receive honors credit for such courses. Each honors candidate will be assigned a special advisor. It will be the responsibility of the advisor to assist the student in selecting a proper balance of honors and regular courses in order to meet requirements for graduation. In any event, no more than 90 honors quarter credits (hours) may be applied toward graduation; (ii) Students who are not honors candidates may petition the Honors Advisory for permission to enroll in honors courses. When enrollment in honors courses is limited, preference will be given to honors candidates. All students who successfully complete honors courses will receive honors credit for such courses. (iii) A student will be withdrawn from the honors program for failure to (a) maintain a cumulative grade point average of 3.0 (2.50 for first quarter freshmen); (b) carry any honors courses for three consecutive quarters (unless excused by the chairman of the honors council/director of the honors program). Students who withdraw from the College for academic reasons will also be withdrawn from the program. All students who have been withdrawn from the program for one or more reasons listed above may reapply for the honors program, if and when, they meet the admissions requirements. Students planning to withdraw from the honors program may do so at any time provided they notify the honors program office of their intention in writing.

- C. *Admission of Foreign Students* — Foreign (international) students may be admitted to the Honors Program provided they meet the general requirements for freshman and sophomore honors. Such international students will be admitted to the honors program (unless prior United States educational experience is evident) only after they have completed a year of study at the College. Advanced Placement status and other academic advancements shall not negate the requirement just described. Since educational systems vary widely, the Honors Council may waive this rule after careful review of the (individual) student's record.
- D. *Non Traditional Students* — The designation "non-traditional" applies to students who are enrolled on a part-time basis. In general, non-traditional students may be admitted to the program only if their academic course load is twelve (12) or more quarter hours (as an average). Consequently, such students may be considered for honors certification on an annual basis (every spring).
- E. *Honors Degree Requirements* — In addition to the completion of general requirements, an honors degree candidate must (1) have participated in the program in both junior and senior years at the College; (2) have completed 60 honors credits in the junior and senior years, and a minimum of 15 honors credits in departments outside the major; (3) be certified as having completed an honors curriculum in a major department, including the completion of an acceptable Senior Honors Thesis (for 10 credits). A satisfactory substitution recommended by the student's major department and approved by the Honors Council will suffice; (4) maintain an overall grade point average of 3.0 or above.

Since this honors program does not seek to abolish designations of honors status based on grade point averages (e.g. cum laude, etc.), it is suggested that the following designations be adopted for the recognition of

honors graduates and candidates. (i) An award based on attainment of sophomore honors and an honors degree. (ii) Distinction in the major (honors in the major). (iii) Certificates of merit to students not earning the honors degree. (iv) Thesis of Distinction for outstanding research and a presidential citation. (v) Institutional honors to those students earning honors certification in major and non-major areas. (A minimum grade point average of 3.0 will also be required.)

CAMPUS HONOR SOCIETIES

Alpha Kappa Mu
Beta Beta Beta
Beta kappa Chi
Pi Gamma Mu
Sigma Tau Delta
Tau Alpha Pi

ACADEMIC AREAS

All Areas
Biology
Sciences
Social Sciences
English
Engineering Technologies

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who likewise, have not incurred any academic deficiencies, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the Honor Roll.
2. Students who maintain an average of 3.50 or higher, in a full program in a quarter will have their names placed on the Dean's List for that quarter.
3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally, students whose general average is 3.00 or better may be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point average entire period of college attendance:

Cum Laude	3.00
Magna Cum Laude	3.40
Summa Cum Laude	3.75

ACADEMIC PROBATION AND SUSPENSION

Savannah State College is operated for students who demonstrate seriousness of purpose and ability and disposition to profit by college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scholastic discipline. At the end of each quarter the Office the Registrar computes cumulative grade point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Vice-President for Academic Affairs of the College prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

- 1. Any student who earns a D or F in English 107, or 109 or in any course required in his major or minor must repeat the course during the next quarter that it is offered.

2.	Stages of Progress	Minimum Cumulative
	Quarter Hours	Grade Point Average
	1-45	1.5
	46-90	1.7
	90-120	1.9
	121 and above	2.0

A student whose cumulative grade average at the end of any quarter is at or above the minimum grade point average for his appropriate stage of progress will be considered in *good standing*.

A student whose cumulative grade point average first falls below the minimum grade point average for his stage of progress will then be placed on academic warning.

A student on academic warning whose cumulative grade point average is not raised to the satisfactory level for his stage of progress at the end of the quarter will then be placed on *academic probation*.

A student who does not achieve the cumulative grade point average for his stage of progress, but does maintain a 2.0 grade point average for his probationary quarter will be continued on probation for the next quarter of attendance.

A student who does not raise his grade point average to the minimum level for his stage of progress or achieve a 2.0 grade point average during his probationary quarter will be *suspended* from the college for one quarter.

- 3. A student on probation (1) may not register for less than ten hours and not more than thirteen hours; (2) must repeat all courses in which he earned the grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic advisor for counseling immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.

4. Any student who fails all of his classes during a given quarter, or who withdraws from all of his classes without an approved withdrawal from the college, will not be permitted to enroll for the succeeding quarter.
5. A student who has been suspended for academic reasons may be readmitted when he has complied with the following procedures:
 - a. Submission of an Application for Readmission at least thirty (30) days prior to the beginning of the quarter that he expects to return;
 - b. Submission of evidence of increased motivation and maturity.

The College reserves the right to deny admission to any student who has been suspended for academic reasons.

6. Applications for Readmission are considered by the Committee on Admission on the basis of detailed information concerning the cause of failure, academic goals, entrance tests, college grades previously earned, length of absence, motivation, outside commitments, and recommendations from appropriate personnel.
7. A student readmitted after suspension will be placed on academic probation and will be subject to the regulations listed in number two above.

STUDENT ACADEMIC GRIEVANCE APPELLATE PROCEDURES (Disciplinary)

A. Original Jurisdiction:

1. *Initial and Original Jurisdiction* — All student grievances of an academic nature in the College shall rest with the individual departments for a decision. The student shall have the option of accepting this decision or of making an Appeal. This step is handled by the School's Educational Policy Committee.

B. Appeals:

1. *Right of Appeal* — Appeals shall be available to every student in an academic grievance proceeding against the School. The appeal must be filed within forty five (45) calendar days with appropriate Department Head.
2. *Appellate Procedure* — When a decision of original jurisdiction has been rendered, the Grievant shall have seven (7) calendar days to appeal this decision. All appeals shall be in writing and supporting documents presented to the Dean of the School.

Within three (3) days, the Appellant shall be given, in writing, all charges upon which the original decision was based as well as all necessary information for the appellate hearing procedures. The student shall be guaranteed a speedy hearing, yet given adequate time to prepare his defense.

3. *Jurisdiction of Appeal* — The Vice President of the College shall make the decision regarding all appeals. The Vice President shall have the prerogative of either creating a special committee, or using an independent officer to assist in hearing the case.
4. *Rights of Appellant* — The Grievant shall have the right to:
 - (a) Be present when all evidence is presented against him/her and all witnesses appear;
 - (b) Have an advisor (non lawyer) present to assist throughout the proceedings;
 - (c) Cross-examine witnesses;
 - (d) Present evidence by witness or affidavit; and
 - (e) Present evidence by deposition when a witness is unable to appear.
5. *Hearing Procedures* — There shall be a record kept of the entire proceedings. This may be done by tape or by a stenographer.
 - (a) The hearing will commence by a reading of the charges and the decision of the department of original jurisdiction.
 - (b) Evidence will be presented to sustain the decision.

WITHDRAWING FROM COLLEGE

Students at Savannah State College are regarded as young adults who are capable of making mature decisions, with minimum counseling, about their educational plans. Accordingly, any student who feels that the circumstances require his withdrawal from the college may do so by filing the appropriate forms in the office of the Vice-President for Student Affairs. The Vice-President for Student Affairs, counselors, and advisers will counsel with the student in an effort to determine whether the circumstances are such that the College can provide a remedy which will make it possible for the student to remain in school. If such remedy cannot be afforded, the Dean of Students, or his designated representative, will formally approve the request for withdrawal and forward the appropriate forms to the offices of the Academic Vice-President, the Director of Admissions and Records, and the Vice-President for Business and Finance.

Students not able to follow this procedure should write or have a representative write to the Dean of Students, requesting permission to withdraw. Students who withdraw without giving formal notice will forfeit claims for any refunds.

THE LAST DAY TO WITHDRAW FROM ALL CLASSES FOR THE QUARTER WILL BE THE LAST DAY OF SCHEDULED CLASSES.

COASTAL GEORGIA CENTER FOR CONTINUING EDUCATION

The Coastal Georgia Center for Continuing Education was established in 1979 to combine the resources of both Armstrong State College's Community Service Division and Savannah State College's Extended Services Area. Utilizing a Downtown Center located at 305 West Broad Street, the Dean of the Coastal Georgia Center for Continuing Education operates a unified Continuing Education program dedicated to serving the people of Savannah, Chatham County, the State of Georgia and, for some programs, beyond those boundaries.

A wide variety of programs are offered at Armstrong State College, Savannah State College, the Downtown Center, and when it is appropriate, at job sites, schools, community centers and other locations in Savannah. Instructors are drawn from the faculties of both institutions, from qualified experts in the Savannah community and from consultants throughout the region.

On the Savannah State campus, the Extended Services Area is responsible for the coordination of all community service/continuing education activities. Since these activities are viewed as a college-wide function, responsibility for program development is shared with the various academic units on campus. The major community service/continuing education components of the college are the short-course/conference program, the federally-funded grant programs, and the Correspondence Study Office.

SHORT-COURSE/CONFERENCE PROGRAM

The Short-course/conference Program offers non-credit courses; conferences, seminars and workshops for the general public. Formal admission to the college is not required.

Classes meet once or twice weekly during the college's regular quarter. The length of a class meeting ranges from one hour to two hours. No A, B, C, grades are given, but the S or U mark is given denoting a participant's satisfactory or unsatisfactory completion of a course. Continuing Education Units are awarded participants who successfully complete a course, and a record of enrollments maintained.

Federally Funded Grant Programs

A fundamental purpose of the Extended Services Area/Federally Funded Grant Program component is to serve the needs of particular groups, including persons from low-income families or academically unprepared individuals from the community who require continued education, in both their career/vocational pursuit or personal development. To accomplish this, programs and projects are designed, written and submitted for federal funding.

Programs in Pre-Employment Guidance (Labor Market Orientation); Career/Vocational Exploration (Project Discovery); Classroom Training and Remediation (Project Explore); Vocational Exploration classroom training and Work Experience (Project HIRE — Helping Individuals Reach Employment); have been funded during recent academic years.

CORRESPONDENCE STUDY

The Correspondence Program — In addition to credit instruction on the campus, Savannah State College is authorized to offer correspondence courses. Such courses have become recognized sources for public education, reflecting a sense of obligation to those who cannot undertake resident instruction and to those who do not require instruction for personal growth and enrichment.

Students registering in correspondence study should meet the minimal requirements of graduation from an accredited high school.

College correspondence study is designed as an auxiliary to regular campus classroom and study materials and instructors are usually the same as those for resident instruction.

Courses completed in this program and courses completed in a similar program at recognized institutions will be accepted for credit toward graduation at Savannah State College under the following conditions:

- 1) Not more than 45 quarter hours may be earned in correspondence.
- 2) Not more than 50% of the required courses in the major or minor may be completed in correspondence.
- 3) Courses may not be taken in correspondence study to remove deficiencies earned in residence.
- 4) Correspondence courses may not be taken by students who have completed 135 or more quarter hours.

Students desiring to have correspondence credit counted toward graduation should obtain written permission from the chief academic office of the College and present this statement to the Correspondence Study Office.

Information concerning courses, credit, fees, examinations, textbooks, etc., may be obtained from: Correspondence Study Office, Savannah State College, Savannah, Georgia 31404.

EVENING, WEEKEND, AND SWING PROGRAM

Savannah State College has seen the importance of reaching greater varieties of people and meeting varied educational needs through the establishment of the Weekend, Evening, and Swing Program. This program aims to provide greater educational opportunities for working adults who find it necessary to combine work with school.

Courses in Evening, Weekend, Swing are offered by faculty members from various departments in the School of Business, School of Humanities and Social Science, and the School of Science and Technology. For description of the courses, refer to the listings in the catalog.

Admissions Policies and Procedures:

The applicant will follow the same procedures as stated by the College for admission.

PROGRAM DESCRIPTION

Evening Program

The Evening program allows a person who is employed full-time during the day to attend classes during the evenings. Presently, the program consists of four class periods held nightly, Monday through Thursday. Classes are scheduled either Monday and Wednesday or Tuesday and Thursday at following hours:

First Class Period:	6:00 p.m.-8:10 p.m.
Second Class Period:	8:20 p.m.-10:30 p.m.

This arrangement gives the student an opportunity to earn twelve (12) or more credit hours per quarter, which qualifies him as a full-time student.

Weekend Program

The Weekend Program is a new venture which makes a college education available to people of the community who are unable to attend classes scheduled in the regular day or evening programs. This program consists of four class periods held Friday through Sunday and allows a student to earn twelve (12) or more credit hours per quarter. Classes meeting the first hour Friday will meet the first hour Saturday, etc.

FRIDAY	1st Hr.	6:00 p.m. — 8:10 p.m.
	2nd Hr.	8:20 p.m. — 10:30 p.m.
SATURDAY	1st Hr.	8:00 a.m. — 10:10 a.m.
	2nd Hr.	10:20 a.m. — 12:30 p.m.
	3rd Hr.	1:00 p.m. — 3:10 p.m.
	4th Hr.	3:30 p.m. — 5:30 p.m.
SUNDAY	3rd Hr.	1:00 p.m. — 3:10 p.m.
	4th Hr.	3:20 p.m. — 5:30 p.m.

Swing Program

The Swing program is set up primarily to serve those persons who are employed in swing shift jobs. Dual classes are scheduled for the mornings and evenings in order that a student working swing shift may also "Swing" classes.

SENIOR CITIZENS

Residents of Georgia, sixty-two years of age or older at the time of registration, may enroll in courses for credit or as auditors on a space available basis, with waiver of matriculation fees. They will be required, however, to pay for supplies, etc., that might be necessary for a given course. The individual must present a birth certificate or other comparable documentation of age to qualify for the waiver of fees and must meet all requirements for admission to the college. Further information on this program is available from the office of Admissions.

PREPROFESSIONAL PROGRAMS

Savannah State College offers preprofessional training for persons interested in pursuing such paramedical careers as medical technology, nursing, physical therapy, medical illustration, medical social work, and medical secretary. Pre-professional study is also provided for persons desiring to enter the professions of engineering, law, medicine, veterinary medicine, dentistry and pharmacy.

GEORGIA INTERN PROGRAM

Students who are enrolled full-time at Savannah State College are eligible to participate in the Georgia Legislative Internship Program. Students selected to participate in the Program are assigned to a legislative office or to legislative committees in either the House or Senate, and work directly under and are responsible to the office head or committee chairman. The first hand experience of observing and participating in the legislative process is considered as part of the student's academic program and the student may receive academic credit for such participation. The program at Savannah State College is under the general direction of the head of the Department of Social and Behavioral Sciences.

THE LIBRARY

The Asa Gordon library houses over 135,000 catalogued volumes, approximately 18,999 bound periodicals, and over 316,000 microforms. Current subscriptions include 803 periodicals and 30 newspapers. Approximately 4,000 volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about Black Americans. A vast array of A-V materials, (calculators, television monitors, film and slide projectors, etc) is also housed in the library.

The circular, air conditioned, two story structure was occupied in January of 1977. Conference and individual study rooms are located throughout the building. There are an elevator and facilities for the handicapped. Periodical subscriptions and the circulation area are located on the first floor. On the second floor are located Reference, Audiovisuals, the Negro Collection and the classroom. Typing facilities are on both floors and smoking is permitted in the smoking lounge.

It is the policy of the library to try to supply, either by purchase or through interlibrary loan, the materials needed by students, staff or faculty.

A well prepared staff is available to assist the campus community at all times.

GENERAL COLLEGE FEES 1986-87

DAY STUDENTS

Fees per Quarter	Residents	Nonresidents
Matriculation	347.00	347.00
Tuition		694.00
Health Fee	33.00	33.00
Student Activity Fee	20.00	20.00
Athletic Fee	45.00	45.00
	<hr/>	<hr/>
Total	445.00	1,139.00
	<hr/>	<hr/>

BOARDING STUDENTS

Fees per Quarter	Residents	Nonresidents
Matriculation	347.00	347.00
Tuition		694.00
Health Fee	33.00	33.00
Student Activity Fee	20.00	20.00
Athletic Fee	45.00	45.00
Board	365.00	365.00
Room	275.00	275.00
	<hr/>	<hr/>
Total	1,085.00	1,779.00
	<hr/>	<hr/>

Married Students' Apartments

Efficiency	250.00 per month
One-bedroom	270.00 per month

Dormitory - Private Room 360.00 per quarter

Late Registration Fee 5.00 first day with an additional 1.00 each day, not to exceed 7.00

Miscellaneous Fees

Post Office Box Rental	2.00 per quarter
Post Office Key Rent	1.00 for duration of box rental
Graduation Fee	
Graduate School	28.00
Undergraduate	25.00
Scholastic Apt. Test	20.00
Vehicle Registration	1.00 per year
Books & Supplies	150.00 per quarter (approximately)

Service Charges

Breakage (Charges will be assessed by Department, based on actual replacement costs.)

Duplicated registration and/or other cards or forms from registration packet; copies of receipts or other documents - each piece. .50

Replacement of student identification card, meal card, dormitory key, or post office box key. 10.00

Late filing of announcement of candidacy for graduation. 5.00

Removal of Grade "I" - each petition. 2.00

Insufficient funds check collection (each time) 15.00

(or 5% of check amount, whichever is greater.)

CAMPUS RESIDENCY POLICY

In accordance with the policies of Savannah State College enacted on September 1, 1975, all freshmen, sophomore, and junior students who are not residents of Chatham County and who are not commuting from their homes outside of Chatham County will be required to reside in the dormitories of Savannah State College at the rate of \$255.00 per quarter and to take the Three-Meal Plan at the rate of \$345.00 per quarter.

Students are not required to live on the campus during the summer quarter, but those who elect to live in the dormitories must purchase at least the Two-Meal Plan.

ROOM DEPOSIT

Entering students and continuing students who live in the college dormitories are required to submit a room deposit of \$50.00 with their requests for room assignment. Upon registration, \$25.00 will be credited toward the student's rent for the quarter. The remaining \$25.00 will serve as a damage/room clearance deposit to be refunded upon withdrawal from the College or at the end of the year upon proper clearance with the Housing Office and the absence of any damage to the room. If the student is not accepted by the College, the \$50.00 will be returned in full. An applicant who, after acceptance for admission, decides not to enroll at Savannah State College may be refunded 80% of the \$50.00 deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted. Contact the Housing Office for further information.

APARTMENTS

On-campus apartments are available for leasing. Students must meet certain criteria to determine eligibility for first-time and continued residency. For further details, please contact the Housing Office.

FEE REDUCTION

Residents of Georgia who are enrolled for less than 12 credit hours shall pay matriculation fee of \$29.00 per credit hour. Those students who are enrolled for more than five hours will pay Health, Athletic, and Student Activity fees, in addition to the matriculation fee.

Nonresidents of Georgia will pay the above fees plus nonresident tuition of \$59.00 per credit hour.

PAYMENT OF FEES

All general College fees and deposits (Matriculation fees, Student Activity fees, Athletic fees, Health fees, and tuition for nonresidents of Georgia) must be paid at the time of registration as announced by the Vice President for Academic Affairs. A student is not officially registered in the College until such fees and charges are paid.

Students who are recipients of fellowships, stipends, or Work-Study administered by the College may defer their room and board in an amount not to exceed two-thirds of the total Board fees assessed.

Room deposits may be paid by mailing the check to the Housing Office.

Testing fees are collected by the Testing Office staff immediately before tests are administered.

All other fees are payable at the Cashier's Office of the Business Office or at designated areas during registration.

Receipts of proof of payment are issued for all payments, and these should be carefully preserved. No student will be entitled to a refund except after surrender to the Cashier's Office of the student's original receipt, if issued, or cancelled check, money order, or registration card.

REFUND PROCEDURES

REFUNDS: Except at those institutions for which special refund policies have been approved by the Board of Regents, the policy for determining refunds to be made on tuition and other *mandatory fees* at institutions of the System is as follows:

Students who formally withdraw *from the institution* during one week following the scheduled registration date are entitled to a refund of 80% of the fees paid for that quarter.

Students who formally withdraw *from the institution* during the period between one and two weeks after the scheduled registration date are entitled to a refund of 60% of the fees paid for that quarter.

Students who formally withdraw *from the institution* during the period between two and three weeks after the scheduled registration date are entitled to a refund of 40% of the fees paid for that quarter.

Students who formally withdraw *from the institution* during the period between three and four weeks after the scheduled registration date are entitled to a refund of 20% of the fees *paid* for that quarter.

Students who withdraw *from the institution* after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of fees paid for that quarter.

Refund of *elective charges* for withdrawing *from the institution* during a quarter will be made on a prorated basis determined by the date of withdrawal.

A refund of all quarterly non-resident fees, matriculation fees, and other *mandatory* fees shall be made in the event of the death of a student at any time during an academic quarter. (BR Minutes, 1979-80, p.61)

SCHEDULE OF REFUND OF FEES

Room and board charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitory must secure a permit from the Vice-President for Student Affairs. This permit, when submitted with the ID, will entitle the student to a refund.

The Student Activity, Athletic, and Health fees are not refundable. In addition, refunds will not be made to students who do not withdraw officially, nor will refunds be given for reduced loads.

The Schedule of Refunds refers to calendar days, beginning with the first day of scheduled registration.

PERSONAL CHECKS IN PAYMENT OF FEES WILL BE ACCEPTED DURING THE ADVANCE REGISTRATION PERIOD. PERSONAL CHECKS WILL BE ACCEPTED DURING THE SCHEDULED DAYS OF REGULAR REGISTRATION WITH THE PRIOR APPROVAL OF AN OFFICIAL FROM THE OFFICE OF THE VICE-PRESIDENT FOR BUSINESS AND FINANCE.

UNIVERSITY SYSTEM OF GEORGIA RESIDENCY REQUIREMENTS

To be considered a *legal* resident of Georgia, the applicant must establish the following facts to the satisfaction of the Director of Admissions and Records.

1. (a) If a person is 18 years of age or older, he or she may register as a resident student only upon showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.

 (b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
2. If a person is under 18 years of age, he or she may register as a resident student only upon showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.

3. A full-time faculty member of the University System and his or her spouse and dependent children may register upon the payment of resident fees even though he or she has not been a legal resident of Georgia for the preceding twelve months.
4. Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.
5. Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University System institutions on the payment of resident fees, when such teachers have been legal resident of Georgia for the immediately preceding nine months, were engaged in teaching during such nine month period, and have been employed to teach full-time in the public schools of Georgia during the ensuing school year.
6. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residents shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.
7. Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for this institution.
8. A student is responsible for registering under the proper residency classification. A student classified as a nonresident who believes that he/she is entitled to be reclassified as a legal resident may petition the Registrar for a change in status. The petition must be filed no later than sixty (60) days after the quarter begins in order for the student to be considered for reclassification for that quarter. If the petition is granted, reclassification will not be retroactive in prior quarters. The necessary forms for this purpose are available in the Director of Admissions and Record's office.
9. If the parents or legal guardians of a minor change their legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non resident rate.
10. In the event that a legal resident of Georgia is appointed as guardian of a non resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

DEGREE AND GRADUATION REQUIREMENTS

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. A minimum of 185 quarter hours, including health, physical education, and orientation.
2. A scholastic average of "c" or higher.
3. Satisfactory completion of the minimum requirements of the Core Curriculum as outlined for Area I, II, and III, and in the specific degree programs for Area IV.
4. Satisfactory completion of the University System of Georgia Language Skills (Rising Junior) Examination.
5. A prescribed divisional or departmental major (such as business administration, chemistry, education, or engineering technology) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "c" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this College.
6. Residence of at least one year at Savannah State College. Students who entered the college in September 1955 and thereafter are required to spend the senior year in residence.
7. Satisfactory completion of the major comprehensive examination as prescribed by the specific department in which the student is majoring.
8. Completion of all the above requirements within eight calendar years. The College reserve the right to allow exceptions to the requirements when recommended by the head of the department in which the student is majoring.
9. Submission of a formal application for the degree to the Office of the Registrar in accordance with the time schedule as listed in the College Calendar.

REGENTS' TESTING PROGRAM

The policy of the Board of Regents of the University System of Georgia requires that each institution administer an examination to assess the competency level in reading and writing of all students enrolled in undergraduate degree programs in University System institutions. The Regents' Policy statement appears below:

Each institution of the University System of Georgia shall assure the other institutions, and the System as a whole, that students obtaining a degree from that institution possess literacy competence, that is, certain minimum skills of reading and writing.

The Regents' Testing Program has been developed to help in the attainment of this goal. The objectives of the Testing Program are: (1) to provide Systems wide information on the status of student competence in the areas of reading and writing; and (2) to provide a uniform means of identifying those students who fail to attain the minimum levels of competence in the areas of reading and writing.

Passing the Regents' Testing is defined as having passed all components of the Test by scoring above the cutoff score specified for each component. The test may be administered either in its entirety or as one or more components depending on the needs of the students. If one component of the Test is passed, that component need not be retaken; this provision is retroactive to all students who have taken the Test in any form since the inception of the program.

The intent of this policy is that passing the Regent's Test occur before the end of the student's sophomore year, that is, before the completion of 105 hours of degree credit. Students who fail the test must retake and pass the Test. Each institution shall provide an appropriate program of remediation and shall require deficient students to participate in that program prior to retaking the test.

INSTITUTIONAL POLICIES REGARDING THE REGENTS' TESTING PROGRAM

All students enrolled in undergraduate degree programs are required to pass the Regents' Examination in reading and writing prior to graduation.

REQUIREMENTS

1. Students who have earned forty-five (45) credit hours and passed English 107 and 108 are **REQUIRED** to take Regents' Examination during the next quarter of enrollment after having earned forty-five credit hours.
2. Students who have earned sixty (60) credit hours (regardless of the English courses passed) are **REQUIRED** to take Regents' Examination during the next quarter of enrollment after having earned sixty credit hours.
3. First time examinees must take both parts of the Examination in one administration.
4. First time examinees are required to sit for the Regents' Testing Program "Test Preparation Seminar" prior to taking the Examination. This seminar is jointly sponsored by the staff of the Comprehensive Counseling Center and the Vice-President for Academic Affairs. A student may be excused from this seminar only by the Dean of the School in which the student is enrolled.
5. Students who fail to sit for the Examination as required under numbers 1 and 2 above will be suspended.
6. Students who pass both parts of the Examination in one administration or in separate administrations will be considered to have met the Regents' Examination requirements.

7. Those students who, prior to January 1, 1980, failed to pass both parts of the Examination in one administration, but who passed both parts in separate administrations, are now considered to have met the Regents' Examination requirement. If these students have completed all other graduation requirements, their date of graduation (the date which will appear on the diploma) will be the first institutional graduation date after January 1, 1980.

REMEDIATION FOR REGENTS EXAMINATION

Students who have not passed the Regents' Examination before they earn seventy-five (75) hours of credit or who fail either part of the examination after earning seventy-five hours of credit must enroll in English 092 (Writing) or English 093 (Reading) during the quarter subsequent to earning 75 credit hours or failing the Examination. Permission will not be given to retake the Examination unless students complete the remediation courses. Failure to enroll in these required remediation courses will result in cancellation of a student's registration for that quarter. Each of these courses carries five hours of institutional credit and requires that the students successfully complete approximately fifty (50) hours of classroom and laboratory instruction each quarter. Grades in English 092 and 093 will be "S" (Satisfactory), "IP" (In Progress), or "U" (Unsatisfactory). No other grade will be given for either course.

Savannah State College students who may be jointly enrolled at other System schools are required to take their Regents' Examination remedial courses at Savannah State College.

Students who have failed to pass both parts of the Examination must register for both English 092 and English 093. These courses must not be taken concurrently; for example, students must take English 092 during the first five weeks of a quarter and English 093 during the second five weeks of that same quarter. Students required to take both English 092 and English 093 in a single quarter will not be permitted to enroll for more than five (5) regular credit quarter hours.

Students who are required to take either English 092 or English 093 will not be permitted to enroll for more than ten (10) regular credit hours.

Students who have met all other requirements for graduation may register for both English 092 and 093 concurrently.

Failure to sit for the Examination during the quarter in which remediation is taken will result in suspension for one quarter. Students who have been suspended for failure to sit for the Examination when required must re-enroll for remedial courses during their next quarter of enrollment and they must also sit for the Examination that quarter. If these students fail to enroll in remediation their registration will be cancelled.

STUDENT RESPONSIBILITY

Students are responsible for complying with all Institutional policies regarding the Regents' Testing Program. Failure to comply will result in disciplinary action ranging from cancellation of registration to suspension, depending upon the gravity of the situation.

ACADEMIC ADVISING

Academic advisors should verify compliance with this policy before signing-off on class schedules of their advisees. Accordingly, academic advisors should:

1. Require that students with 45 credit hours sit for the Regents' Test upon the completion of English 107 and 108.
2. Assure that advisees adhere to all policies regarding required sitting and remediation.
3. Encourage students to register for freshmen English during each quarter of enrollment until they pass the three required courses.

TRANSFER STUDENTS

All transfer students from within the System shall be subject to all provisions of this policy. Students from institutions outside the System who transfer to Savannah State College with seventy-five (75) or more earned degree credit hours shall take the Test during the initial quarter of enrollment and in subsequent quarters shall be subject to all provisions of this policy.

GRADUATE STUDENTS

Students with baccalaureate degrees from colleges and universities within the University of Georgia System or from other, regionally accredited colleges and universities will be exempt from these Policies.

FOREIGN STUDENTS

Students whose native language is other than English may be exempted from taking the Regents' Test; however, such students must take the Savannah State College English Competency Test for Foreign Students in lieu of the Regents' Test. Such students are subject to all of the provisions of this policy regarding eligibility and remediation.

HANDICAPPED STUDENTS

Students with legal visual, auditory, or motor handicaps may arrange for local certification of competency with the Regents' Test Coordinator.

ESSAY TEST REVIEW POLICY

The Regents' Test itself and the scoring criteria are not subject to review; the same methods of scoring will be used during the review process as that in the original scoring. Scoring will follow the normal holistic procedure.

1. A student may request a formal review of his failure on the essay component of the Regents' Test if that student's essay received at least one passing score among the three scores awarded *and* if the student has completed English 107, 108, and 109.

2. A student must initiate the review procedure by mid-term of his first quarter of enrollment after the quarter in which the essay was failed. The review must be initiated, however, within one calendar year from the quarter in which the failure occurred.
3. The review will be initiated at Savannah State College by the student's completing a "Request for Review" form available at the Office of the Regents' Test Coordinator. The Regents' Coordinator will determine the student's eligibility based upon the criteria in paragraphs 1 and 2 above. The review, if warranted, will be conducted by a three-member panel (composed of two English instructors and one additional person) appointed by the Vice President of the College and designated as the on-campus review panel.
4. The on-campus review panel may (1) sustain, by majority opinion, the essay's failing score, thus terminating the review process, or (2) recommend, by majority opinion, the re-scoring of the essay by the Regents' Testing Program central office. The Regents' Test Coordinator will notify the student of the results of the on-campus review.
5. If the on-campus review panel recommends re-scoring of the essay, the Regents' Test Coordinator will transmit that recommendation in writing along with a copy of the essay, to the office of the System's Director of the Regents' Testing Program.

The System's Director will utilize the services of three (3) experienced Regent's essay scorers other than those involved in the original scoring. The decision of this panel on the merits of the essay will be final, thus terminating the review process. The Regents' Test Coordinator will notify the student of the results of the review.

6. All the applicable regulations of the Regents' Test Policy remain in effect for those students whose essays are under review, including those regulations relating to remediation and to retaking the Test.

REGISTRATION PROCEDURES FOR THE REGENTS' EXAM

All students will be notified by the Office of Admissions and Records of the date and time they are *required* to take the Regents test. Failure to take the test at the prescribed time will result in disciplinary action ranging from a *reprimand* to suspension.

FINANCIAL AID

Federal Financial Aid Programs (Title IV Programs)

If you are enrolled or accepted for enrollment at Savannah State College and are a citizen or permanent resident of the United States, you are eligible to apply for assistance under these programs. Remember—*grants are gifts but loans must be repaid.*

- A. *Pell Grant* — you may apply for a Pell Grant if you are an undergraduate on at least a half-time basis in a program of study which is six months in length or longer. Pell Grants range from \$50 to \$2100, depending on your eligibility as determined by a standard formula. The formula uses the information you provide on your application to produce an eligibility index number. The index number is not a dollar figure but is used, along with the total cost of attending Savannah State college and your enrollment status, to determine the actual amount of your grant. Pell Grants is an entitlement program, it means that all students who are eligible will receive Basic Grants awards.
1. Pell Grants will be paid through SSC. Your eligibility and the actual amount of your aid are determined by the Office of Education. The financial aid officer cannot make any adjustments in your award beyond those required by the Government.
 2. Your eligibility for a Pell Grant does not directly affect your eligibility for any other aid. However, SSC requires you to apply for a Pell Grant before you can be considered for other aid.
- B. *Supplemental Educational Opportunity (SEOG)* — are for students of exceptional financial need who without the grant would be unable to continue their education. You are eligible to apply if you are enrolled at least half-time as an undergraduate student. If you receive an SEOG, it cannot be less than \$200 or more than \$1500 a year. Normally, an SEOG may be received for up to four years, the total that may be awarded is \$4000 for a four-year course of study. If you are selected for an — SEOG, SSC must provide you with additional assistance at least equal to the amount of the grant. (This is a matching grant)
- C. *College Work Study (CWS)* — provides jobs for students who need financial aid and who must earn a part of their educational expenses. You may apply if you enrolled at least half-time as a graduate or undergraduate student. SSC arranges jobs-on-campus or off-campus with a public or private non-profit agency. If you are found to be eligible you may be employed for as many as 40 hours a week. In arranging a job and determining how many hours a week you may work under this program, the financial aid officer will take into account (a) your need for financial assistance; (b) your class schedule; (c) your health and academic progress.
- In general your salary will be based on the current minimum wage, but will also be related to the type of work you do and the proficiency required of you.
- D. *National Direct Student Loans (NDSL)* — The NDSL Program is for students who are enrolled at least half-time and who need a loan to meet their educational expenses. You may borrow up to a total of: (a) \$2500 if you have completed less than two years of a program leading to a Bachelor's degree; (b) \$5000 if you are an undergraduate student who had already completed two years of study toward a Bachelor's degree (this total already includes any amount you borrowed under NDSL for your first two years of study); (c) \$10,000 for graduate study (this total includes any amount you borrowed under NDSL for your undergraduate study.)

Repayment begins nine months after you graduate or leave school for other reasons. You may be allowed up to ten years to pay back the loan. During the repayment period you will be charged 5 per cent interest on the unpaid balance of the loan principle.

No payments are required for up to three years if you serve in the Armed Forces, Peace Corps, or VISTA. The financial aid officer can tell you about loan collection provisions for borrowers who enter fields of teaching, or who teach in designated schools.

- E. *Guaranteed Student Loans (GSL)* — enable you to borrow directly from a bank, credit union, savings and loan association or other participating lender which is willing to make the loan. The loan is guaranteed by a state or private nonprofit agency or insured by the Federal Government. The maximum you can borrow as an undergraduate is \$2500 a year. A graduate student may borrow up to \$5000 a year. The interest rate on these loans is 8 per cent. The total amount outstanding that you may borrow for undergraduate study is \$7500.

Most students are eligible for Federal interest benefits. If you qualify for these benefits, the Federal Government will pay the interest for you until you begin repaying the loan, and during authorized periods of deferment.

OTHER FINANCIAL AID PROGRAMS

- A. *Georgia State Incentive Scholarship Program* — the GIS is a state program administered by the Georgia Higher Education Assistance Authority. The awards may range from \$150 to \$450 a year. to be eligible (1) you must be a legal resident of Georgia for a minimum of 12 consecutive months immediately preceding the date of registration, (2) you must be enrolled full-time or accepted for admission in a GHEAA approved postsecondary educational institution located in Georgia and never received a four-year college degree.

To apply for GIS, you must complete a Financial Aid Form (FAF) and list GHEAA to receive a copy of the need analysis, also complete the Georgia Scholarship and Grant Application after being accepted for admission and have the application certified by the school's financial aid officer. Apply for GIS between January and June 1, before the Fall Quarter.

- B. *Regents' Scholarships* — were established in 1961-62 for the purpose of assisting students of superior ability who require financial aid to attend college. The scholarship is administered by the University System institutions in accordance with policies established by the Board of Regents. The awards are made only to Georgia residents for enrollment at University System institutions. The institutions receive, through the financial aid directors, applications for Regents' Scholarships. They choose recipients and determine the amounts and the timing of the awards, subject to policies and regulations of the Board of Regents. The Board takes final action on each award decision made by an institution.
- C. *Pickett and Hatcher Educational Fund* — was established by the late Mr. Claud Adkins Hatcher of Columbus, Georgia, for the purpose of helping

worthy and deserving students in the pursuit of their college education. Applications and additional information may be secured from the Pickett and Hatcher Educational Fund, P.O. Box 2128, Columbus, Georgia 31902.

- D. *Jaycee's Scholarships* — is a project conducted by the Savannah Jaycees to increase the educational opportunities in the community for deserving young people who may not be able to continue their education due to financial hardship. A scholarship to cover the cost of tuition for three academic quarters gives assistance to qualifying students in order that they may further their education at either of Savannah's local colleges.

To qualify, the student must have at least a 3.0 grade point average and some need. During the summer quarter, applications are distributed to qualifying students. In September, all applications submitted by the Financial Aid Office are sent to the chairman of the Savannah Jaycees Scholarship Committee and six semi-finalists are selected from each of Savannah's two local colleges. These individuals are interviewed and three prospective students for each college will be selected to receive scholarships.

- E. *NROTC Scholarships* — three such scholarships exist (1) National Scholarship Program — enter from high school qualifications based on SAT performance and screening interviews. Must be physically qualified and must take 1 year of college calculus and Physics. Full tuition and fees (including books but not room and and board) and \$100 per month for 40 months, \$980 pay per summer for 70 days on active duty for training while in college. (2) $\frac{3}{4}$ year College Scholarship Program — enter as freshman at SSC and same entry requirements and benefits as in program No. 1 except that you cannot be more than 25 years old upon graduation, (3) 2 Year College Scholarship Program — enter from college at the end of the sophomore year with a "C" average or better, 1 year each of college Science and Math, physically qualified and the same age requirements as above, complete 42 days of training at the Naval Science Institute at Newport, R.I. the summer after the sophomore year earning \$14 per day or \$588 for the summer.
- F. *Melvin Bostic Scholarship* — are named for a former SSC student who was killed while soliciting scholarship monies for SSC. Melvin Bostic scholarships are awarded each year to the highest ranking freshman, sophomore and junior students at SSC. The amount of the scholarship is \$500 per student.
- G. *Sara Mills Hodge Scholarships* — are available to incoming freshmen who have a high grade point average, score above 750 on the SAT and have been a resident of Chatham County at least twelve months. Continuing students who maintain a 3.0 average or above and reside in Chatham County are also eligible for this award. Scholarships range from \$400 to \$600 per student.
- H. *SSC Campus Chest Scholarships* — Each division at SSC is given one scholarship to be awarded to a student within the respective division for tuition for one year. The Division chooses the recipient. It is recommended that the scholarship be awarded on criteria other than need.

- I. *Thelma Harmond Scholarship Fund* — this \$1,000 scholarship is available to a college sophomore who has a grade point average of 3.0 or above. The student must major in business education or business administration. The scholarship is for one year and the student must show evidence of financial need. The scholarship is sponsored by the Savannah Chapter Continental Societies.
- J. *Mario dela Guardia Chemistry Award* — is a \$1,000 award given annually to two junior chemistry majors (\$500 each) who participate in departmental seminars and the student affiliate chapter of the American Chemical Society.
- K. *Suresh Persad Scholarship* — is a \$1,000 scholarship given annually to two students (\$500 each) who rank in the upper 10% of their class and who demonstrate financial need. No award is given to psychology, sociology, social work, or physical education majors.
- L. *James H. Porter Merit Scholarships* — Under the criteria for eligibility for the Porter Merit Scholarships; the student is to be a resident of Georgia for purposes of tuition and fees. The student is to be accepted or enrolled full time (minimum of 15 quarter credit hours) in an undergraduate or graduate degree program at Savannah State College. Undergraduate applicants are to have a Scholastic Aptitude Test (SAT) composite score of 1,000 or more and a high school grade point average (GPA) in academic subjects of 3.0 or better. Undergraduate applicants are not to have a bachelor's degree. Undergraduate applicants with previous college experience are to meet the same requirements of entering freshmen plus college GPA of 3.3 or better. Graduate applicants are to have an undergraduate GPA of 3.3 or better. Graduate Record Examination (GRE) verbal plus quantitative of 1,100 or better, or National Teacher Examination (NTE) of Weighted Common Examination Totals (WCET) of 600 or better, or Graduate Management Admission Test (GMAT) or 500 or better. No awards are to be made for the summer quarter. Undergraduate awards are to be limited to 12 quarters. Graduate awards are to be limited to four quarters. Priority is to be given to James H. Porter Scholars for renewal; James H. Porter Scholars are to maintain a cumulative GPA of 3.0 or better to be eligible for renewal.
- M. *Roper Foundation Scholarships* — are awarded to a student in the Department of Engineering Technology and a student in the School of Business. Each student receives \$750. The criteria are set by each department.
- N. *Joseph H. Turner Athletics and Science Scholarship* — is a \$4,000 scholarship given to one student. The recipient must be an entering freshman and receives a \$1,000 installment annually on the scholarship. The recipient must have a 2.5 GPA in science or math high school courses. The student must also qualify for the membership on one of the intercollegiate athletic teams at the college. The recipient must major in a natural science, mathematics, or business administration and be a native of the United States. The student must demonstrate financial need.

HOW TO APPLY FOR FINANCIAL AID

1. Fill out a Savannah State College Financial Aid Application and submit it to the Office of Financial Aid, Savannah State College, Savannah, Georgia 31404.
2. Fill out a Financial Aid Form (FAF) making sure that you check the Section pertaining to the Pell Grant and submit this form to College Scholarship Service, Princeton, N.J.
3. Fill out the Georgia Incentive Scholarship (GSI) Application (if a resident of Georgia and submit to Office of Financial Aid, Savannah State College, Savannah, Georgia 31404.

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS FOR STUDENTS RECEIVING TITLE IV FEDERAL FUNDS

I. Introduction

The Higher Education Act of 1965, as amended by Congress in 1980, mandates that institutions of higher education establish minimum standards of "satisfactory progress" for students receiving financial aid from Title IV federal programs. These standards apply to the following programs: Pell Grant, State Student Incentive Grants, Supplemental Educational Opportunity Grants, College Work-Study Awards, National Direct Student Loans, and the Guaranteed Student Loans.

Students must be both in good academic standing and making satisfactory progress while receiving the above mentioned financial assistance.

II. Eligibility Statement for Financial Aid

A student is officially eligible for financial aid as long as he is enrolled as a regular or developmental studies student and maintains an academic average that meets the College's scholastic standards for continued enrollment. A student is officially considered to be making satisfactory progress as long as he is eligible for continued enrollment according to the academic standards as stated in the *Savannah State College Bulletin*.

III. Good Academic Standing

For the purpose of receiving financial assistance, the U.S. Department of Education has defined "good standing" as the eligibility of a student to continue attending the institution in accordance with the standards of the institution.

IV. Satisfactory Academic Progress

During the year in which a student receives financial assistance, that student must complete an average of 10 degree credit hours for each quarter. (10 degree credit hours approximate 80% of a normal course load for a typical course of study.)

Students who have been **full-time** for an academic year must have **30 degree** credit hours at the end of three quarters. Students with less than 30 degree credit hours will not be considered making satisfactory progress, and no assistance will be offered until his eligibility is restored. Part-time students must have 15 degree credit hours at the end of three quarters. Eligibility may be restored in two ways.

- A. Enroll for the necessary hours during the next quarter of enrollment without financial aid; or
- B. Enroll the next quarter for at least 10 degree credit hours plus the needed hours to bring the previous academic year to 30 without financial aid.

Successful completion of either of the above options will reestablish a student's eligibility for financial assistance. However, awards will be made only if funds are available, since most funds are committed for the entire year before the end of the Summer quarter.

- C. Academic Standing - Policies governing the academic standing of students are defined in the *Savannah State Undergraduate Catalog*. Students must meet the standards listed below in order to remain eligible to receive financial aid:
 - 1. Students in good standing may receive aid;
 - 2. Students who are placed on academic probation remain eligible to receive aid in the initial quarter of probationary enrollment but lose eligibility for aid in the next quarter if they fail to earn a (2.0) or better GPA in at least 10 hours of work in the initial quarter of probation.
 - 3. As long as students on academic probation continue to make satisfactory progress by earning a 2.0 GPA or better in at least 10 hours each quarter they may continue to receive aid.
 - 4. Students who have lost their financial aid eligibility because of academic suspension may regain their financial aid eligibility after one quarter without financial aid in which they have earned at least a 2.0 grade point average and 10 quarter hours; and
 - 5. Students are reminded that the 10 hours minimum referred to here does not alter the normal requirements that they be enrolled in a specified number of hours in order to be eligible to receive designated funds, normally a full course load of 12 or more hours to be eligible for full financial aid benefits.

A readmitted student who has been suspended for academic reasons must, in the first quarter after readmission, earn a 2.0 grade-point average as a full-time student before he is again considered to be making satisfactory progress toward a degree. The award of financial aid will be suspended during this quarter.

The Director of Records and Admissions will inform the Director of Financial Aid of dismissals for academic reasons and unsatisfactory academic progress.

V. Appeal of Financial Aid Suspension

- A. A student who is suspended from aid may appeal to the Student Financial Aid Committee using a prescribed form on which the student offers reasons why he did not achieve minimum academic requirements and why his aid should not be terminated.
- B. The Student Financial Aid Committee will review the appeal and determine whether or not the suspension was justified. The student will be notified in writing of the decision.

STUDENT DEVELOPMENT

Student Affairs

The Vice-President for Student Affairs at Savannah State College is responsible to the President for the over-all administration of Student Affairs. Staff members share with the Vice-President the administration of the Student Affairs program.

In the broadest sense, the Student Affairs program is concerned first with the life of the student outside the classroom. This definition, however, is inadequate as every person involved in student personnel work at the College, as is true of the faculty and other administrative officers, is deeply interested in the academic work of our students. The intellectual development of the student is and must continue to be the primary objective of Savannah State College.

The undergirding principle of the program at Savannah State College is that there is a different type of student on the campus today who is living in a very different type of world from his predecessors. The differences brought on by cultural, religious and technological revolutions dictate new and fresh ways that must be discovered to meet the needs of the students. Students must now be helped to develop the area of living rather than just the business of living. Therefore, any keen observer can discern immediately that at Savannah State College more and more efforts are being made to help the student not only "do something" but to be someone to be more socially responsible to his community, culture and world. This is part of the great and important work of Student Affairs.

There is no one best program in comparison to others. Student Affairs is no better or no worse than its ability to recognize and welcome individual differences in students and its ability to get the full cooperation and input from the institution's administration, faculty, and staff.

RESIDENCE LIFE

There are six dormitories and one apartment building operated for students at Savannah State. These structures offer a cross section of facilities, services, and programs. Fees and qualifications for residency in the apartment building are different from those for the dormitories. Assignment to living areas is based on sex and classification. Additional criteria are used for apartment residency. Expectant mothers are not allowed to remain in dormitories.

Residence on campus complements classroom instruction. Education, as well as recreational and cultural, programs are available in the residence halls. There are certain regulations in place to insure that the living/learning processes of students are not unduly interfered with. Such regulations can be found in this catalog and publications distributed by the Office of Student Affairs and the Office of Housing.

The policies of the Board of Regents of the University System of Georgia require that all campus residential units for students be filled before students are permitted to live off-campus. All students below the senior year (135 quarter hours) are required to live on campus, unless a condition below exists:

- a. A student is married and furnishes proof thereof;
- b. A student's parents are residents of Chatham County;
- c. A student commutes from a neighboring county that is within a 50 mile radius of the College;
- d. A student is a legal resident of Chatham County;
- e. A student (handicapped, expectant mother) with special housing needs.

All students are required to apply for housing at the beginning of the academic year, summer school, and any quarter that is preceded by a break in continued residence. A room reservation/damage/key deposit is also returned. Students are expected to formally clear housing at the end of Spring and Summer Quarters, and any other quarter if they do not plan to return or graduate. Dormitory directors will sign the appropriate clearance form for students.

Room assignments are made for the academic year. Freshmen students live together, with the exception of student-athletes and other students by permission of the Vice-President for Student Affairs. In the event that an occupant of a double room moves out, the remaining student will be assigned another roommate, pay a higher rate, or be assigned to another room.

Students who are required to live in dormitories are also required to purchase a meal plan. Students who have diets prescribed by physicians may be exempted, if the College Cafeteria is unable to prepare the diet meals. Hot plates and other cooking devices are prohibited. If found in rooms, they will be confiscated and the owner charged a penalty fee of \$25.00.

Freshman Orientation

GED 101. Student Life

This course is designed to expose all freshmen students to a series of group and individualized experiences that emphasize the processes of goal-setting, self-assessment, change strategies and evaluation. Through instruction and consultation, students are encouraged to direct their own development by acquiring appropriate life skills. This two-hour class includes units of instruction that cover; knowing your college, strategies for academic success (study skills, time management), values clarification and self-concept development, test-taking skills, academic planning and career exploration. Two quarter credit hours. All quarters.

Student Conduct

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The College reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the college community.

Counseling Service

The Comprehensive Counseling Center (CCC) offers professional counseling services to all prospective and regularly enrolled students at Savannah State College. The services offered include academic, personal, social and career counseling as well as an array of test information and interpretive data. These services can be provided in an individual or group setting.

The professional staff consists of the director, three staff counselors, and a competent group of peer counselors. The peer counselors provide an opportunity for student-to-student counseling and they render tutorial assistance to students experiencing academic difficulties.

The entire staff operates with the basic understanding that there are some student oriented concerns that extend beyond the scope of their personal resources or areas of expertise. With this in mind, a strong and expansive referral service has been established with other campus based programs and community agencies. Referral made by the staff even to another campus program or office, are made only with the approval of the counselee involved in the given situation.

The staff invites you to visit them to share your experiences, concerns and impressions so that you can decide in what way they can benefit you most. A student desirous of visiting the counseling center may come in, with or without an appointment. If you wish to drop in without advance arrangements, you usually will have to wait only a short time while the secretary arranges for a counselor to meet with you.

The center is open Monday through Friday from 8:30 a.m.-5:30 p.m. Counseling is confidential and free to students. The center is located on the second floor of the King-Frazier Student Center, Room 233.

Orientation

The orientation program is under the supervision of the Comprehensive Counseling Center. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training have, and with specialized vocational guidance. This program concentrates on all freshmen and new students entering the College in the first week of the fall quarter. Students derive from the program their immediate informational needs.

A follow-up course dealing with the psychology of human relationships, required of freshmen and transfer students, is designed to facilitate the process of total adjustment to college and to guide the student's thinking in reference to the social forces that affect him daily.

College Testing Program

Savannah State College is a national testing center. Several tests are required at the college and some are optional.

The Scholastic Aptitude Test (SAT) is required of all students who expect to enroll at the institution. Entrants scoring less than 750 on the SAT are required

to sit for the Basic Skills Education (BSE). The BSE is a placement test for Reading, English, and Mathematics. The results determine whether the student enters as a freshman or as a Developmental Studies (remedial) student.

The Regents Language Skills Examination is required after completing 45 quarter hours (including English 107, 108, and 109) and before completing 75 quarter hours. Passing this examination determines whether a student may routinely pursue his degree.

There are routine classroom examinations and the Office of Testing provides interest, aptitude, personality, and vocational instruments for counseling purposes. Exit examinations are required in some areas.

Other tests administered at the college are:

Graduate Management Admissions Test (GMAT), Law School Admission Test (LSAT), Graduate Record Examination, (GRE), Scholarship Aptitude Test (SAT), National Teacher Examination (NTE), College Level Examination Program (CLEP), and Miller Analogies Test (MAT).

Health Services

The college health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the school physician and school nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris-McDew Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illness.

Students who are too ill to attend class must report to the Health Services Building or obtain the services of a private physician. Under no circumstances will students be permitted to remain in the college residence halls. Any illness in the residence halls should be reported to the Health Service immediately.

Armstrong State College students who are in residence halls on the Savannah State College campus are required to pay the health fee.

Each student is urged to take our hospital insurance at the Office of Business and Finance so as to be covered in case of emergencies or the need for hospital treatment. The escalating high cost of hospital and emergency room fees makes this almost mandatory. Each student is directly responsible for his hospital or emergency room fees. The college health fee does not include these services.

Employees will be treated at the Infirmary for emergencies only.

Policy on Drugs and Weapons

The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of any narcotic or dangerous drug controlled by federal or Georgia law is prohibited. Violators are subject to arrest and prosecution by College and/or local, state, and federal courts. It is against College rules and regulations for any student to possess weapons such as knives, guns, blackjacks, etc. Persons found in possession of weapons will be subject to disciplinary action by the College and/or local courts.

Religious Life

Savannah State College puts great emphasis upon a rich and varied religious life program. Through its religious activities, the College seeks to develop an understanding of and an appreciation for the place of religion in everyday living, to deepen spiritual insight, and to make the practice of religious principles a vital part of the life of the well educated citizen.

Student Financial Aid

Savannah State College offers aid to students who demonstrate financial need. However, financing an education should be a combined effort on the part of the parents, students, State and Federal Government and the College. The College administers limited scholarships, grants-in-aid, loans, and work opportunities, awarded largely on the basis of need, scholarship, character and general promise. Preference is given to students who use their time wisely in scholastic and extra-curricular pursuits.

Students who have not completed their applications for financial aid prior to registration for any given quarter will not be eligible for consideration for financial assistance until all materials have been processed and need for financial assistance determined. The deadline for submitting all financial aid forms for any given Fall Quarter is August 18th. All college work study students are required to have a cumulative average of 2.00 to remain on campus college work-study. Those students who fail to do so and are on probation will have to support their own education or pay their own fees for one quarter until their grade point average is raised to 2.00.

Application for student Financial Aid should be made through the Office of the Director of Financial Aid in the Colston Administration Building, Room 120.

College Placement Service

The College Placement Service assists all students and graduates of Savannah State College. For the graduates, the College Placement Service helps in finding full-time employment for summer months. This office attempts to maintain contact with all agencies which will benefit the students of Savannah State College. The Office of Placement is located in King-Frazier Complex, Room 246.

Cooperative Education

The goals and objectives of the Department of Cooperative Education go hand in hand with the over all institutional mission of the college. Specifically, the department accepts the responsibility to help the college:

1. To significantly increase the number of graduates in the various academic disciplines.
2. To reorganize the curriculum, and/or redesign the approaches to delivery of instructional services to effectively meet the assessed needs of students.
3. To develop and firmly establish a competency based incentive program for accelerated student achievement.

4. To provide multi-service outreach programs for predetermined community needs.
5. To improve and expand students, personnel services to include the following: (a) an active recruitment program; (b) orientation to college life; (c) financial planning and support; (d) counseling help in problem situations; (e) information about academic capabilities and options; (f) wise use of time for study, work, and leisure; (g) assistance with job placement prior to graduation; (h) test performance; and (i) following-up.
6. To continue efforts to improve the image and visibility of the institution and its relationship to the larger community.

Cooperative Education at Savannah State College is a program organized to provide students with (1) professional training in their major areas of study, (2) money to help defray college expenses, (3) and general work experience to enhance a more competitive background upon graduation.

The program allows a student to alternate four (4) academic quarters in a professionalized business setting with four (4) quarters of academic study on campus. The co-op student does this during his sophomore and junior years and spends the entire freshman and senior years on campus.

Further encouragement of the program is evidenced by the college's granting of five (5) course hours per quarter for co-op participation.

Veterans Services

The Veterans Counselor is responsible for assisting veterans and veteran dependents in receiving benefits from the Veterans Administration. He collects and disseminates information to veterans and dependents, and counsels with them throughout the year about regulations and directives peculiar to their status.

Veterans and dependents are urged to report personally to the Veterans Counselor immediately after their admission to the College and to keep the office informed of withdrawals, transfers, or graduation status changes.

STUDENT ACTIVITIES

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to participate in a wide range of significant activities through the efforts of organized groups, programs are planned for the social, religious, and cultural advancement of the college community.

Student Government Association

The Student Government Association, composed of representatives of all classes, works with the administration in the governance of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The choral society, band, men's glee club, and Wesleyan choir are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.

Publications

Student trained in various phases of publicity by working with the College Press Service.

The *Tiger's Roar*, official student newspaper, is published every month by students under supervision of the Public Relations Office. The college yearbook, *The Tiger*, is a schoolwide project which is published through the Public Relations Office. WHCJ, the campus FM Radio Station, serves as a training unit for mass communications students.

Organizations

Criminal Justice Club	Muslim Student	Music Educators National
Esquire XIII Princess	Association	Atlanta Collegiate
Fighting Tigers	Social Workers of	Association
Good Quality	Tomorrow	Society of Eastern Stars
ITT	International Students	Future Secretaries
IEEE	Association	Association
Kappa Alpha Psi	Civil Engineering Tech.	Jeffersonian Society
Kappa Diamond Club	Ebony Movement	Fraternity of Masons
Psychology Club	Vogue XIII	Milledgeville Association
Student Union Board	American Society of	Newtonian Society
Pan African Study	Mechanical Engineers	National Collegiate
Group	Wesleyan Gospel Choir	Association of
Pan Hellenic Council	Tiger Pep Club	Secretaries
Social Works of	Ambassadors for Christ	Northern Star
Tomorrow	Maconites	Players by the Sea
SSC Peer Counselors	Cooperative Education	Student Non-Violent
SSC Student Alumni	Club	Coordinating Committee
Esquire XIII Fraternity		Dancerettes
Marine Science Club		

Honor Societies, Fraternities, and Sororities

National honor societies such as Alpha Kappa Mu, Beta Beta Beta, Beta Kappa Chi, Kappa Delta Pi, Phi Beta Lambda, Phi Mu Delta, Sigma Delta Chi, Sigma Tau Delta, Tau Alpha Pi, and the Biomedical Society, have chapters on the campus, and hold membership in the Association of College Honor Societies.

The national social fraternities organized on the campus include Alpha Phi Alpha, Alpha Phi Gamma (journalism), Alpha Phi Omega (service), Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi.

The national social sororities organized on the campus are Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, and Delta Sigma Theta.

The organizations sponsor rich and varied programs designed for the intellectual and social development of all who take part.

Recreation and Sports

The Department of Recreation and Student Affairs Committee conducts a well-rounded intramural athletic program of seasonal activities for men and women. Utilizing group games and various sports for their full education and health values, the program features football, basketball, track and field, tennis, golf, baseball, softball, volleyball, field hockey, badminton, and swimming.

A member of the Southeastern Intercollegiate Athletic Conference, Savannah State College maintains competition in all sports sponsored by the conference. Savannah State College also holds membership in the National Collegiate Athletic Association, NCAA Division II.

Qualified instructors in Health, Physical Education, and Recreation provide training in the several aspects of the required activity program. Recreational activities, social dancing, swimming and free exercise activities are encouraged and centered in this area. The area makes every effort to provide wholesome recreational activities for all students.

Cultural Activities

To complement formal education on the campus, the College provides many activities for cultural enrichment. Student assemblies, institutes, motion pictures, lectures, art exhibitions, drama, forums, hobby groups, and tours contribute to the general enrichment of the college community.

The Lyceum Committee brings to the campus renowned concert artists. All students are encouraged to attend these formal activities which afford inspiring association with outstanding personalities.

The Department of Fine Arts sponsors several musical programs and art exhibitions during the school year. The Christmas and Spring Concerts, together with the annual Fine Arts Festival celebrating National Music Week during the first week in May, are significant events in the cultural program of the College.

SCHOOL OF BUSINESS

Faculty:

LEO G. PARRISH, JR., Dean

Edward Alban
Tsehai Alemayehu
Hayward S. Anderson
Barbara D. Bart
Jan Bogan
Johnny Campbell
George Conlin
Carl J. Davis
Thomas R. Eason
William G. Hahn
Jeraline D. Harven
J. Alexander Heslin, Jr.
W. Jan Jankowski
Robert E. Jensen

Mary Lou Lamb
Arthur Levy
Victor W. Lomax, Jr.
William D. McCarthy
Jackson McNeil
Robert Morgan
Jane Hass Philbrick
Swannie Richards
Terry K. Sheldahl
Charlease T. Stevenson
Carol D. Tapp
Ralph Traxler
Don Walsh
Willie M. Waddell
Lester Wilson

Staff:

Mary Nyberg, Carolyn W. Gillyard, Sheri D. W. Saleem, and Patricia H. Williams, Secretaries
Nathan C. Coleman, Assistant to the Dean
Carl J. Davis, Director, Computing Services
Thomas R. Eason, Director, Economic Education Center
Zelda James, Administrative Assistant, Title III Grant
Indira Koganti, Computer System Operator
Lester Lamhut, Senior Programmer

The School of Business provides professional education in business administration in all aspects of Accounting, Administrative Services, Economics, Finance and Banking, General Business Administration, Information Systems, Management, and Marketing. In designing programs which prepare the students for a dynamic environment, the faculty recognize the stable principles and the evolving methods on which business and commerce are based.

The purpose of the School of Business is to provide to each student a sound educational foundation for gainful employment which is economically and socially effective in our contemporary culture. The School provides curricular offerings, supervised work experiences, co-curricular activities and individual counseling. All of these are intended to prepare the student for a career in any aspect of business and commerce; to manage, operate, and own a business enterprise; to teach business subjects at levels up to and including Junior College (in conjunction with Armstrong State College); and for further studies in any area of business and commerce.

ACADEMIC COUNSELING

Each student, undergraduate and graduate, in the School of Business is assigned to an academic adviser in the student's major area of specialization. Each new student should request assignment to an adviser before attempting to register for any course.

Each student, working with an adviser, will plan the student's academic progress through his/her career at Savannah State College. The plan as approved by the adviser will be recorded on the student's curriculum contract form and will be a permanent part of the School's records.

The general rules covering a student's course work in the School of Business are these:

1. A student must complete all courses in Areas I, II and III of the curriculum before registering for any course in Area IV, or the student must concurrently complete the last course(s) in Areas I, II and III and the first course(s) in Area IV. In all cases prerequisites for each individual course must be observed.

2. A student must complete all Area IV courses before registering for any upper division course, or the student must concurrently complete the last course(s) in Area IV and the first course(s) in the upper division. In all cases prerequisites for each individual course must be observed.

3. A student must complete with minimum required grades all prerequisites for a course before registering for the course that requires them: i.e., if a prerequisite course requires a grade of C or higher for credit, the student must achieve a grade of C or higher in the prerequisite. Refer to "SPECIAL REQUIREMENTS FOR BUSINESS STUDENTS" following.

4. A student must complete (or be concurrently enrolled in) all other courses in the Common Body of Knowledge (CBK) before registering for BAD465 Business Policy. The CBK courses are

BAD317	Business Law I
BAD320	Business Finance
BAD331	Business Statistics
BAD332	Quantitative Analysis
BAD340	Principles of Marketing
BAD360	Principles of Management
BAD420	Production Management
BAD462	Human Relations in Organizations
BAD465	Business Policy

The student should plan to take BAD465 Business Policy during the last or next-to-last quarter of the senior year.

DEGREE PROGRAMS

The School of Business offers programs leading to the degrees Bachelor of Business Administration (BBA) and Master of Business Administration (MBA). The BBA degree requires completion of 196 quarter hours in specified courses; the MBA requires an additional 60 quarter hours in specified courses.

A student who enrolls as a Special Student (as defined elsewhere in this Catalog) and who then changes to a degree-seeking status may transfer for credit a maximum of ten quarter hours earned while in special student status.

A student in the School of Business may pursue a major in one of the following areas: Accounting, Administrative Services,, Economics, Finance and Banking, General Business Administration, Information Systems, Management, and Marketing; and in cooperation with Armstrong State College, a Business Teacher Education major is available with options in Business Data Processing and Accounting, Comprehensive, and Bookkeeping and Business Management.

CURRICULUM REQUIREMENTS

All curricula in the SCHOOL OF BUSINESS are composed of five major parts:

GENERAL EDUCATION (Liberal Arts) CORE	60 Qtr. Hrs.
Area I. Humanities	20
ENG 107-108-109	15
HUM 232 or 233	5
Area II. Math and Science	20
Math 107-110	10
Laboratory Science 2 Qtr. Sequence	10
Select from BIO 123, 124; PHS 203, 204, CHE 101, 102 or PHY 201, 202	
Area III. Social Science	20
HIS 101 or 102	5
HIS 202 or 203	5
PSY 201 or SOC 201	5
POL SCI 200	5
BASIC BUSINESS CORE	30 Qtr. Hrs.
Area IV. Business Core	
ACC 211-212 Principles of Accounting	10
BAD 201-Intro. to Infor. Systems	5
BAD 225-Bus Com & Report Writing	5
ECO 201-202 Principles of Economics	10
OTHER GENERAL REQUIREMENTS	11 Qtr. Hrs.
Physical Education	6
BAD 105-Intro. to the College, to Business & Career Development	5

COMMON BODY OF KNOWLEDGE (CBK)		
IN BUSINESS		45 Qtr. Hrs.
BAD 317-Business Law I	5	
BAD 320-Business Finance	5	
BAD 331-Bus. & Eco. Statistics	5	
BAD 332-Quantitative Analysis	5	
BAD 340-Prin of Marketing	5	
BAD 360-Bus Org & Man Prin	5	
BAD 420-Production, Planning & Control	5	
BAD 462-Human Relations in Organizations	5	
BAD 465-Business Policy	5	
MAJOR AREA OF SPECIALIZATION		
RESTRICTED AND FREE ELECTIVES*		50 Qtr. Hrs.
TOTAL		196 Qtr. Hrs.

*See curricula in Accounting, Administrative Services, Economics, Finance and Banking, General Business Administration, Information Systems, Management, and Marketing.

SPECIAL REQUIREMENTS FOR BUSINESS STUDENTS

Each student enrolled in the School of Business and seeking the BBA degree must satisfy the following requirements before enrolling in upper-division courses in Business. (Note: a maximum cumulative total of ten upper division business hours may be taken concurrently with satisfaction of the requirements.)

1. The student must complete Areas I through IV of the core curriculum with a minimum adjusted grade point average of 2.0 and with a grade of C or higher in each of the following courses:
- | | | |
|---------|---------|---------|
| ENG 107 | MAT 107 | BAD 201 |
| ENG 108 | MAT 110 | BAD 225 |
| ENG 109 | ACC 211 | ECO 201 |
| | ACC 212 | ECO 202 |

2. The student must have passed both parts of the Regents' Examination (see REGENTS TESTING PROGRAM elsewhere in this Catalog).

Further, each student enrolled in the School of Business and seeking the BBA degree must achieve a grade of C or higher in all courses specified as Major Requirements and as Restricted Electives for the student's major area of specialization.

MAJOR AREAS OF SPECIALIZATION

Listed below are the courses required for each of the major areas of specialization: Accounting, Administrative Services, Economics, Finance and Banking, General Business Administration, Information Systems, Management, and Marketing.

ACCOUNTING

Major Requirements: as specified	
ACC 301, 302, 303, 305, 325, 430, 450	35
Restricted Electives: (select two)	
ACC 326, 460, BAD 301, 318	10
Free Electives	5

ADMINISTRATIVE SERVICES

Major Requirements: as specified	
ADS 202, 405, 420, 425	19
and in addition one of the concentrations listed below	
Secretarial Concentration	31
Requirements: as specified	
ADS 203, 204, 312, 313, 340	19
Restricted Elective: (select one)	
ACC 300, BAD 318, 409, 440	5
Free Electives	7
Management Concentration	31
Requirements: as specified	
ACC 300, BAD 440	10
Restricted Electives: (select two)	
ADS 340, BAD 302, 318, 409	10
Free Electives	11

ECONOMICS

Major Requirements: as specified	
ECO 308, 323, 401, 405, 407, 431	30
Restricted Electives: (select two)	10
BAD 321, 401, 402, ECO 499 or other 300 or 400 level	
School of Business course approved by Economics adviser.	
Free Electives	10

FINANCE AND BANKING

Major Requirements: as specified	
Select six courses from the list below:	
ACC 300, BAD 321, 325, 401, 402, 460, ECO 323, 431	30
Restricted Electives: Select two courses from the list below	
or from courses remaining on the list above	10
BAD 301, 318, ECO 405, 407	
Free Electives	10

GENERAL BUSINESS ADMINISTRATION

Major Requirements: as specified	
ACC 300, BAD 409, 410, ECO 401 and any two School of	
Business 300 or 400 level courses	30
Restricted Electives: Select any two 300 or 400 level choices	
except 499	10
Free Electives	10

***Option**

Major Requirements: as specified

ACC 300, ECO 401, and four 300 or 400 level School of Business
Courses 30

Restricted Electives:

BAD 409, 410 (or substitutions approved by general
business administration coordinator) 10

Free Electives 10

*Course options identified prior to beginning sequence

INFORMATION SYSTEMS

Major Requirements: as specified

BAD 302, 303, 431, 432, 435, 440 30

Restricted Electives (Select two) 10

ADS 420, BAD 301, 305, 309, 434

Free Electives 10

MANAGEMENT

Major Requirements: as specified

BAD 341, 412, 416, ACC 300, 440, ECO 401 30

Restricted Electives: (Select two) 10

ECO 308, 407, BAD 301, 304, 307, 308, 318, 409, 411, 460

Free Electives 10

MARKETING

Major Requirements: as specified

BAD 304, 306, 341, 403, 415, 433 30

Restricted Electives: 10

BAD 409, 410 (or substitution approved by marketing adviser)

Free Electives 10

BUSINESS EDUCATION

In cooperation with Armstrong State College, the following teaching options are available: Business Data Processing and Accounting, Comprehensive, and Bookkeeping and Business Management. Detailed information may be obtained from the Secondary Education Department at Armstrong State College or the Administrative Services Department at Savannah State College.

DESCRIPTION OF COURSES

ACCOUNTING (ACC)

(Explanation of numbers in parentheses: Lecture hours, Lab hours and Credit hours.)

211. Principles of Accounting I. (5-0-5)

The fundamental concepts and procedures of accounting are studied with emphasis both on rationale and technique. The elements of accounting, the accounting cycle, and financial statement presentation are covered in depth for the transactions of a merchandising firm. Computer Aided Instruction (CAI) will be utilized where ever applicable. Prerequisites: MATH 110.

212. Principles of Accounting II. (5-0-5)

Continuation of ACC 211 with emphasis on partnership and corporate financial reporting. Coverage also includes basic accounting concepts in job order and process costing, the statement of changes in financial position and interpretation of financial statements. Computer Aided Instruction (CAI) will be used wherever appropriate. Prerequisites: ACC 211.

300. Managerial Accounting. (5-0-5)

Study, interpretation, and analysis of accounting data as used in the decision-making process of business and not-for-profit organizations. Prerequisites: ACC 211, ACC 212.

301. Intermediate Accounting I. (5-0-5)

Introduction to accounting theory underlying financial statements. Emphasis on the study of accounting principles relating to the recording and presentation of cash, receivables, current liabilities and the investment in productive resources such as inventories, plant and equipment. Selected computer applications are used throughout this course. Prerequisites: ACC 212.

302. Intermediate Accounting II. (5-0-5)

Continuation of ACC 301 with emphasis on financial reporting by corporations. Topics include capital stock, retained earnings, dividends and accounting for long-term liabilities. Also included are analysis and interpretation of accounting data, funds flow, earnings per share and ratio analysis. Selected computer software packages are utilized wherever applicable. Prerequisites: ACC 301.

303. Advanced Accounting. (5-0-5)

An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. Prerequisite: ACC 302.

305. Cost Accounting. (5-0-5)

The course emphasizes uses of basic cost accounting theory and concepts such as factory cost funding under job order, process and standard cost systems. It also covers control and analysis of materials, labor and factory overhead, and introduces computer assistance in assembling data for prompt transmittal and remedial action needed to serve management needs. Prerequisite: ACC 212.

325-326. Federal Income Tax Procedures I and II. (5-0-5)

An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns. Part II emphasizes federal taxation on corporations and fiduciary returns, gift taxes and estate taxes. Prerequisite: ACC 212.

430. Accounting for Not-For-Profit Institutions. (5-0-5)

Basic concepts and techniques of fund accounting for governmental, educational, religious, and charitable organizations. Also covers budgeting and management accounting problems of these institutions. Prerequisite: ACC 302 or the consent of instructor.

450. Auditing. (5-0-5)

An intensive study of philosophy, concepts and techniques used by independent auditors. Topical coverage includes professional ethics, standards, audit programs, study and evaluation of internal control, auditor's opinions, management services, compilation and review services, statistical sampling techniques, and EDP auditing. Prerequisite: ACC 302.

460. Accounting Information Systems. (5-0-5)

A study of the design and implementation of accounting information systems with an emphasis on computer-based accounting systems from the perspectives of the corporate accountant and the external auditor. Prerequisite: ACC 450.

499. Independent Study and Research in Accounting.

This course is designed for majors with special interest in research and development and for those who are capable of working with a minimum of guidance. Prerequisite: senior status. Credit, one to five quarter hours.

ADMINISTRATIVE SERVICES (ADS)**121. Beginning Keyboarding. (1-2-2)**

Introductory course covering alphanumeric keyboarding skills for students who intend to use typewriters, microcomputers, word processors, computer terminals, and other types of information processing equipment. Student may take a proficiency test to be exempt.

122. Elementary Keyboarding. (1-2-2)

For students who have had one or two semesters of high school typewriting (or ADS 121) and are able to touch-type. Course covers formatting of documents, including letters, manuscripts, and simple tables. Minimum standard for passing: 30 wpm on three-minute timed writings. Prerequisite: keyboarding proficiency.

202. Intermediate Keyboarding. (3-2-4) ** See special note.

Introduction to production typewriting. Skill development in the typing of business letters, forms, tabulations, and formal reports. Minimum passing speed: 40 words per minute.

203. Advanced Keyboarding. (3-2-4)

Production typewriting of office correspondence, business letters, forms, tabulations, reports, legal and medical documents. Prerequisites: ADS 202. Minimum passing speed: 50 words per minute.

204. Machine Transcription. (1-2-2)

An analysis of the characteristics and uses of the major categories of dictation equipment. Machine transcription of business correspondence using state-of-the-art keyboard input (electric and electronic typewriters and microcomputers). Prerequisite: ADS 203 (may be taken concurrently.)

311. Beginners Shorthand. (3-2-4)

The acquisition of shorthand fundamentals. Minimum standard for passing with grade of C: 60 words per minute for three minutes with 97 percent accuracy.

312. Intermediate Shorthand. (3-2-4) ** See special note.

Continued development of theory, reading and writing skills. Introduction to new matter dictation, and transcription of mailable letters. Minimum standard for passing with grade of C: 70 words per minute for three minutes with 97 percent accuracy. Prerequisites: ADS 202 and ADS 311.

313. Advanced Shorthand. (3-2-4)

Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing with grade of C: 80 words per minute with 97 percent accuracy. Prerequisite: ADS 312.

340. Word Processing Concepts and Techniques. (3-4-5)

The development of basic concepts and operational techniques on selected word processing units. Typewriting proficiency required.

405. Information and Records Management. (5-0-5)

Creation, maintenance and disposition of records including the use of hard copy and electronic media.

420. Office Automation. (5-0-5)

Trends and issues in office automation. A study of information processing functions focusing on the integration and management of automated office systems. The organizational concept; the traditional and emerging office; characteristics of major support systems; information/data/user interface; analysis and design; future office systems. Meets requirements of DPMA Curriculum Course 9.

425. Administrative Management. (5-0-5)

A systems approach that provides the framework for understanding the role of the administrative manager in today's modern enterprise. In-depth treatment and analysis of the tools, techniques, and concepts which make the efforts of the administrator more effective.

**** Special Note:** ADS 202 Intermediate Typewriting and ADS 312 Intermediate Shorthand are designed for Administrative Services students who have demonstrated proficiency in typewriting and/or shorthand.

A student who cannot perform effectively on the typing theory test should take ADS 122 - Beginners Typewriting prior to enrolling for the Intermediate course.

BUSINESS ADMINISTRATION (BAD)

105. Introduction to the College, to Business & Career Development. (5-0-5)

This course is designed to acquaint students with the concepts and functions of business enterprises. Students participate in group projects and make oral presentations. Consultants are used to orient students to the challenges, opportunities and personnel of the college and the business world. This course should help students to make decisions relative to their college majors and careers.

201. Introduction to Information Systems. (5-0-5)

A concepts course on methods of processing data as related to business; includes the use of terminals and microcomputer systems as facilitating units for the recording and reporting of data. Included in the course of study are the telecommunication terminal systems and the languages necessary to communicate with a computing system.

211/311. Cooperative Education Work Experience. (1-40-5)

Student works full-time in Business and Industry under the supervision of the Director of Cooperative Education. Each course has specific written clock hour requirements. Register with Co-op Office. Credit, one to five quarter hours per quarter.

225. Business Communications and Report Writing. (5-0-5)

The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications as demanded in business. The role of written communications in relation to news media enters into the consideration given to communication theory. Prerequisite: ENG 109.

301. Business Programming in BASIC. (5-0-5)

This course covers BASIC programming in a small business environment. Included are data-entry methods, file-organization methods, data-communication systems and applications, use of program library, and execution of programs in the batch and interactive mode on terminals and microcomputers. A major project will be required. Prerequisite: BAD 201.

302. Computer Programming in a Business Language I. (COBOL) (5-0-5)

An introduction to the COBOL programming language and its applications to problem solving. This course is designed for business-oriented students, and applications will be in the areas of business administration and information systems. Prerequisite: BAD 201.

303. Computer Programming in a Business Language II. (Advanced COBOL) (5-0-5)

Extension of the subject matter covered in BAD 302 to include work with indexed files, sort and screen utilities. Prerequisite: BAD 302.

304. Salesmanship and Sales Management. (5-0-5)

A study of personal selling; types of customers, problems of administration; and the selection, training, compensation and management of sales forces. Prerequisite: BAD 340.

305. Business Programming Applications in Fortran. (5-0-5)

A thorough course in FORTRAN for business programming. Programming will emphasize file handling, sorts, and the use of screens utilities to provide user interface. Advanced programming techniques that presume previous programming skills in at least one other problem solving language. Prerequisite: BAD 303 or instructor permission.

306. Retailing. (5-0-5)

Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. Prerequisites: BAD 340, ACC 211.

307. Principles of Insurance. (5-0-5)

The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc.

308. Principles of Real Estate. (5-0-5)

Survey of the changing pattern of urban development; the structure of real estate markets; characteristics of real estate resources; financing methods and institutions; introductory valuation principles; taxation of real property; location analysis, city structure; and land use patterns.

309. Computer Programming in a Business Language III. (RPG) (5-0-5)

An introduction to the RPG II programming language and its application to business programming. This course is designed for the advanced business programming student. programs will be developed for advanced business application with emphasis on report generation, file handling, and table processing. Prerequisite: BAD 303 or instructor permission.

317. Business Law I. (5-0-5)

A study of legal rights, social forces and government regulations affecting business; an in depth study of the law of contracts; the law of personal property and bailments.

318. Business Law II. (5-0-5)

An in-depth study of the Uniform Commercial Code (Sales, Commerical Paper, Secured Transactions and Letters of Credit); a study of Agency and Employment Law; Partnership Law and Corporation Law.

320. Business Finance. (5-0-5)

Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term dabt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of intercorporate financing. Prerequisite: BAD 331.

321. Capital Budgeting — Theory and Practice. (5-0-5)

A study of the capital budgeting process; an integration of the budget with relative measures of risk. Prerequisite: BAD 320.

325. Financial Statement Analysis. (5-0-5)

A comprehensive and contemporary study of the methods of analyzing financial statements relative to decision making by the firm. Prerequisite: BAD 320.

331. Business and Economics Statistics I. (5-0-5)

Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling validity and reliability; time series analysis. Prerequisite: Math 110.

332. Quantitative Analysis. (5-0-5)

Mathematical models in business with applications to decision-making under conditions of certainty and uncertainty. Prerequisite: BAD 331.

340. Principles of Marketing. (5-0-5)

The distribution of goods and services from producer to consumers, market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of the commodity, brands, sales methods and management; advertising plans and media. Prerequisite: ECO 201.

341. Marketing-Management. (5-0-5)

Management of marketing organizations, with emphasis on planning, organizing and controlling the marketing organizations, internal and external communications; marketing management decision-making. Prerequisite: BAD 340-360.

360. Business Organization and Management (5-0-5)

The basic principles of management applicable to all forms of Business and to all levels of supervision; the managerial functions will be covered and will be the basic orientation to course material.

401. Advanced Corporate Finance. (5-0-5)

The financial function of the firm relative to standard institutions and instruments of corporation finance. Prerequisite: BAD 320.

402. Financial Institutions. (5-0-5)

A study of the unique and particular roles played by the several financial institutions in the United States. Prerequisite: BAD 320.

403. Advertising. (5-0-5)

Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of an organization; the sales process and psychological objectives of advertising, copywriting, and layout design types of advertising media; criteria for selection of specific media. Prerequisite: BAD 340.

409. Administrative Practice and Internship. (2-10-5)

One hundred hours of practical work experience are required in offices of Savannah State College and nearby business concerns. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. By special arrangement and cleared in advance with advisor, laboratory work may be taken during the summer before the senior year. Off-campus experience is permitted if arranged in advance. Prerequisite: BAD 360.

410. Administrative Practice and Internship. (2-10-5)

Practical work and seminar requirements are the same as in BAD 409, Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration. Prerequisite: BAD 360 and BAD 409.

411. Small Business Administration. (2-6-5)

Study of the operation and problems of small businesses in general. Individual investigations of small businesses in the local area and a compilation of written reports will be required of each student. Prerequisite: BAD 360.

412. Personnel Management. (5-0-5)

The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application forms; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques, and grievance procedures. Prerequisite: BAD 360.

415. Marketing Research. (5-0-5)

Sampling, survey, experimental and other research techniques for determining customer preferences and market potentials. Interpretation and presentation of research findings for management decision making. Prerequisites: BAD 340 and BAD 331.

416. Business Research. (5-0-5)

Scientific approaches in solving business problems. Emphasis is placed on the introduction and utilization of analytic research tools. Prerequisites: BAD 360, BAD 340, BAD 331 and senior standing.

420. Production Planning and Control. (5-0-5)

Studies how an enterprise forecasts demand, plans future production, and directs resources to carry out current production. Prerequisites: BAD 360 and BAD 332.

431. Business Systems Analysis and Design. (5-0-5)

Initiation of system design, detailed systems investigation and analysis, system design, design of I/O, system files, systems processing and controls, programming assignment, specifications, testing and documentation. Prerequisites: ACC 212, BAD 303, 320 and 360.

432. Data Base Systems. (5-0-5)

Data structures, multi-keyed data base processing, commercial systems, implementation, database administration, programs and projects. Prerequisite: BAD 431.

433. Advertising Management. (5-0-5)

Its principal orientation is toward individuals responsible for planning, organizing, and controlling advertising and promotional activities. Its principal focus is that of managing the advertising function and developing advertising strategy. The case method is the principal instructional vehicle. Prerequisite: BAD 340, BAD 360, BAD 403.

434. Data Base Implementation. (5-0-5)

Analysis, design and implementation of a database project. Students will be organized into teams to develop and implement a relational or codasyl database as a team project. Teams will complete the database development process to include analysis, planning, design and implementation. Prerequisite: BAD 432 and instructor permission.

435. Data Communications. (5-0-5)

Principles and techniques of data communications, including hardware and software considerations. A study of the technical aspects of data communications. Review of communications protocol, networking and communications systems. Prerequisite: BAD 431 or instructor permission.

440. Management Information Systems. (5-0-5)

Total information system for managerial strategy planning, and control. Information management, the systems approach, storage and data bases, functional information systems, information systems development.

460. Commercial Bank Management. (5-0-5)

An examination of the management function of the commercial banking system; an investigation of the techniques and principles followed by commercial banks in the performance of their many social and economic roles. Prerequisite: BAD 320.

462. Human Relations in Organizations. (5-0-5)

A study of the process of integrating people into the work situation so that they are motivated to work together harmoniously, productively and with economic, psychological and social satisfaction. Prerequisite: BAD 360.

465. Business Policy. (5-0-5)

An integration of knowledge of the various fields of business, with emphasis on decision making. Prerequisite: All other CBK courses.

499. Independent Study and Research in Business Administration.

This course is designed for majors with special interest in research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the needs of the student. Prerequisite: Senior status. (Offered upon request.) Credit, one to five quarter hours.

ECONOMICS (ECO)**200. Introduction to Economic Principles. (5-0-5)**

A one quarter introduction to economic methods and problems concentrated on the development of the intellectual attitudes considered vital to the individual in his role as a responsible and thinking citizen. The course is not open to business students, nor may it be taken for credit by anyone who has ever earned credit in any previous economics principles course.

201. Principles of Macro-Economics. (5-0-5)

Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade.

202. Principles of Micro-Economics. (5-0-5)

Basic economic concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems.

308. Managerial Economics. (5-0-5)

Microeconomic applications to decision making and policy formulation in the business firm. Production costs, pricing and market structures.

323. Money Credit and Banking. (5-0-5)

The principles of money and banking with special reference to their functions, credit, the banking process and the banking system, foreign and domestic exchange, the business cycle, and the history of banking. Prerequisite: ECO 201.

401. Labor Economics and Industrial Relations. (5-0-5)

Problems confronting capital and labor; legislation and administrative regulations affecting employees and employers. Prerequisite: ECO 201-202.

405. International Economics and Finance. (5-0-5)

An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration.

407. Government and Business. (5-0-5)

The effects of public policies upon business and industry with emphasis on anti-trust, taxation, regulatory and defense policies.

431. Investments. (5-0-5)

The investment risks in different investment portfolios; selection of an appropriate balance in accordance with individual or institutional goals and risk-bearing capacity. Types of investments and securities.

499. Independent Study and Research in Economics.

This course is designed for majors with special problems for research and development and for those who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor and the specific content of the course is directed by the need of the student. Prerequisite: Senior status. Credit, one to five quarter hours.

SCHOOL OF BUSINESS MASTERS IN BUSINESS ADMINISTRATION PROGRAM

Graduate Faculty

LEO G. PARRISH, JR., Dean
WILLIAM D. McCARTHY, MBA Coordinator

Edward Alban
Tsehai Alemayehu
Barbard Bart
Thomas R. Eason
William G. Hahn
Jeraline D. Harven

W. Jan Jankowski
Mary Lou Lamb
Victor W. Lomax
Jane Hass Philbrick
Ralph Traxler

PURPOSE

The philosophical base of the Master of Business Administration Program is an affirmation of the dignity and worth of the individual. Implicit in this philosophy is a realization that modern man must be productive, articulate, and proactive. The Program is dedicated to service through: educational programs, community involvement, faculty and student research, scholarship, and creativity. By offering advanced professional training in management and administration, the Program prepares individuals for positions of responsibility in business, industry, government, and education.

ADMISSION PROCEDURES

Admission to the MBA Program at Savannah State College may be completed through the MBA Coordinator, School of Business, Savannah State College. All admissions documents should be sent to the MBA Coordinator's Office for processing. The application for admission, a \$10 fee, and transcripts must reach the College 20 days prior to registration.

The following materials and procedures are part of the requirements for admission to the MBA Program:

1. The application for admission must be completed and submitted by all applicants 20 days prior to registration.
2. Two official transcripts showing all college credits earned for the undergraduate degree should be sent directly from the college which awarded the degree to the MBA Coordinator. Official transcripts are required of all applicants except transient students who may submit a letter of authorization from their graduate school 20 days prior to registration.
3. Graduate Management Admission Test (GMAT) scores must be submitted by all degree-seeking students.
4. Two letters of recommendation from individuals familiar with the applicant's ability to successfully complete the graduate program must be submitted.

5. A \$10 application fee is required of all students, except graduates of Savannah State College.

All materials and documents should be submitted as soon as possible, but items as noted above must arrive at least 20 days prior to the registration date of the quarter a student enrolls. Action can be taken on application for admission only after essential materials have been received.

ADMISSION REQUIREMENTS

All applicants for admission to the MBA Program are required to take the Graduate Management Admissions Test (GMAT). This test is administered at Savannah State College and at other testing centers once each quarter. The test is designed to measure aptitude for graduate study in business and is not a measure of knowledge in specific subjects. Therefore, applicants should not delay taking this examination simply because they have not had specific course work in business. A maximum of three attempts for a passing score on the GMAT is allowed for entrance to the MBA at Savannah State College. The Educational Testing Service (ETS) bulletin describing the test is available from the MBA Coordinator's Office.

CATEGORIES OF ADMISSION

Regular Admission (A Degree Status Classification)

Definition

Regular Admission means that a student has met all admission requirements and is admitted to a degree program with full graduate status.

Requirements

To qualify for admission to full graduate status in the MBA program, applicants must show competence in the common business core of knowledge, which requires a basic understanding of accounting, business law, economics, finance, information systems, management, marketing, production, quantitative methods, and statistics. Students who have received a bachelor's degree in business generally have fulfilled this requirement, but students with degrees in other disciplines will need preparatory work in these areas before beginning MBA course work. The preparatory requirements may be met by satisfactory completion of not less than one course (equivalent to 5 quarter hours or 3 semester hours) in each of the following areas:

Accounting	(Principles)
Business Law	(Legal Environment)
Economics	(Micro and Macro Principles)
Finance	(Business, Corporate, or Managerial)
Information Systems	(Introduction to)
Management/Marketing	(Principles)
Quantitative/Production	(Quantitative Applications in Prod.)
Statistics	(Business and Economic)

These preparatory requirements may be satisfied by taking appropriate undergraduate-level or graduate-level prerequisite courses, by correspondence, or by scoring not less than the fiftieth percentile on the appropriate subject examination (s) of the College Level Examination Program (CLEP). The CLEP examinations are available through the testing service of the college.

In addition to appropriate preparatory work, regular admission status requires 950 points based on the formula: 200 times **overall** GPA plus the GMAT total scores; **or** at least 1000 points based on the formula: 200 times the **upper** division GPA plus the GMAT total scores.

Special Admission (Pre-MBA Status)

Those students applying for admission to the MBA program who have not completed the basic business core (common body of knowledge) must enroll under the Special Admission status. Student records are maintained by both the College Admissions Office and the MBA Office. Students exit from the Special Admissions category upon the satisfactory completion of all required courses and meeting all the other criteria for Regular Admission.

Transient Student (Special Nondegree Status)

Transient students must arrange to have written authorization sent to the Dean, School of Business from their dean, department head, or registrar at the graduate school in which they are enrolled in order to be accepted as a transient student and register in the MBA Program. They must also submit the application for admission and the \$10 fee as described in Admission Procedures. If they wish to become degree-seeking students, they must request appropriate admission in writing and must submit the necessary documents.

READMISSION

Any student in the Graduate Program who did not register during the quarter immediately preceding the quarter he/she intends to reenroll must process a readmission form with the Registrar's Office. The only students exempted from this requirement are those who are initially admitted for graduate study.

STUDENT RESPONSIBILITY

The student is charged with the responsibility for taking the initiative in meeting all academic requirements and in maintaining a careful check on his/her progress toward earning a degree. The student is responsible for discharging his/her obligations to the business office and the library. Further, the student is responsible for adhering to the rules and regulations pertaining to graduate students in particular and to all students enrolled in a unit of the University System of Georgia.

TRANSFER OF GRADUATE CREDITS

A maximum of 25 percent (15 quarter hours) of graduate credit may be transferred from another institution, provided:

1. each course equates with a course in the curriculum of the MBA Program or is an acceptable elective;
2. the credit was earned in an accredited graduate program;
3. a grade of "B" or better was earned in each course;
4. the credit was earned no more than six years prior to completion of all degree requirements.

PROCEDURES FOR PROCESSING TRANSFER CREDITS

Requests by students to receive transfer graduate credit must be supported by two copies of the graduate transcript showing the transfer credits requested. The formal and final request for receiving transfer credits is part of the Application for Candidacy which the student must process upon the completion of 25 hours of graduate work. This application is obtained in the MBA Coordinator's Office.

Advisement on transfer of credits is routinely provided on the Program of Study form which every degree-seeking student must complete with an adviser in the first quarter of enrollment. Formal approval of transfer credits is granted via the student's Application for Candidacy which requires approval by the student's adviser and the MBA Coordinator.

ACADEMIC STANDARDS

MBA students must maintain a grade point average of 3.0 or above for all graduate work.

The following criteria apply to all degree categories: (1) Grades of lower than "C" will not receive graduate credit; (2) a maximum of two "C's" may be applied to the degree; (3) a student receiving two "C's" or one "F" shall have his/her record reviewed by the MBA Coordinator and the Graduate Council to determine if the student is to be permitted to remain in a degree-status category; (4) a student receiving two "F's" or any three grades below "B" becomes ineligible for a graduate degree; (5) Any Regular Admission student who has less than a 3.0 average after completing 25 or more hours shall be required to achieve grades of "B" or better in all courses in order to achieve a 3.0 average to return to regular admission.

COURSE LOAD LIMITATION

A full-time graduate student is expected to carry no more than 15 hours per quarter. The course load for the fully employed student should be appropriately reduced in consultation with his/her adviser. A student on academic probation status should carefully plan his/her course load in consultation with the adviser.

WITHDRAWING, DROPPING, AND ADDING COURSES

Withdrawing is, in the technical sense, dropping all courses and processing a formal withdrawal through the Office of the MBA Coordinator which issues a withdrawal form. A student may withdraw from school at any time during the quarter. Only by formally withdrawing, however, can a student become eligible for the refund of fees as explained in the College Catalog. The student bears the responsibility of contacting the Coordinator's Office to officially drop a course and obtain the signature of his/her professor. Course withdrawals before mid-term are recorded as "W"; any course withdrawals after midterm are "F".

Adding a course may be accomplished through the Registrar's Office which will process a drop/add slip. Courses may be added only during the late registration days at the beginning of the quarter and not at any other time during the quarter. The student must pay the appropriate fee for the additional course, unless a course comparable in credit hours is being dropped simultaneously.

ADVISEMENT

Upon admission to the graduate program, each student will be assigned a faculty adviser. The faculty adviser will approve the scheduling of course work, recommend the student for candidacy, and serve as chairman of the student's comprehensive examination committee.

COURSE REQUIREMENTS

The Master of Business Administration program requires 45 quarter hours of core requirements and an additional 15 quarter hours of electives from graduate offerings.

Quarter Hours

I.	Core requirements	45
	BAD 602—Managerial Microeconomics	
	BAD 603—Information Systems	
	BAD 606—International Business	
	BAD 611—Decision Theory for Business	
	BAD 620—Corporate Financial Policies	
	BAD 630—Managerial Cost and Control	
	BAD 650—Marketing/Management	
	BAD 662—Organizational Behavior and Theory	
	BAD 665—Administrative Policy	
II.	Electives	15
	BAD 601 BAD 604 BAD 613 BAD 621 BAD 622	
	BAD 645 BAD 651 BAD 663 BAD 698 BAD 699	

ADMISSION TO CANDIDACY

It will be the responsibility of the student to make application for admission to candidacy after the completion of all prerequisite courses and 25 hours of 600-level graduate course work. This application will be in three copies to the faculty adviser. Admission to candidacy is contingent upon verification that the student has attained a "B" average in 25 hours of graduate course work and has met all regular admission requirements.

COMPREHENSIVE EXAMINATION

A final comprehensive examination, to be scheduled in a student's final quarter and at least two weeks prior to graduation, is required of all candidates for the Degree of Master of Business Administration. The final examination will be conducted by a committee consisting of the student's faculty adviser as chairman and other members of the graduate faculty appointed by the MBA Coordinator. The date, time, and place of the examination will be set by the Coordinator after consultation with the faculty adviser and the student.

The Coordinator shall notify the student, the Committee members, and the Dean ten days prior to the examination concerning the proposed place, date, and time of the examination.

The candidate is expected to demonstrate a thorough understanding of the common core of knowledge in business, economics, and statistics, and adequate competency to discuss advanced material in those areas in which he/she has had graduate work.

The examining committee's decision on the candidate's performance on the comprehensive examination shall be reported as passing with distinction, pass, low pass, or failure to the Dean. Should the decision be reported as failure, the committee will outline a program of corrective action to be taken by the candidate prior to his/her reexamination.

COURSE DESCRIPTIONS FOR MBA PROGRAM PREREQUISITES

BAD 201. Introduction to Information Systems. (5-0-5)

A concepts course on methods of processing data as related to business. Includes the use of terminals and microcomputer systems, telecommunication systems, and languages necessary to communicate with a computing system.

BAD 317. Business Law. (5-0-5)

A study of legal rights, social forces, and government regulations affecting business; an in-depth study of the law of contracts; the law of personal property and bailments.

BAD 320. Business Finance. (5-0-5)

Principles, problems, and practices associated with the financial Management of business institutions; nature and types of equity financing; major types of short-term and long-term debts; capitalization; financial statement analysis, working capital requirements, reorganization; bankruptcy; methods of intercorporate financing; international finance. Prerequisite: BAD 331.

BAD 331. Business and Economic Statistics. (5-0-5)

Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data, measures of central tendency, correlation and deviation; graphic representation; sampling validity and reliability; time-series analysis. Prerequisite: MATH 110.

***BAD 501. Economic Principles. (5-0-5)**

An examination of macro- and microeconomic theories with emphasis on the following topics: national income and products; business cycles; money and banking; fiscal and monetary policy; international trade; factors of production, supply, and demand; production and costs; and market structures.

***BAD 511. Accounting Principles. (5-0-5)**

Study of fundamental concepts of accounting, including financial statement preparation and analysis as employed in business decision processes.

***BAD 532. Quantitative Aspects of Production. (5-0-5)**

Mathematical models and related techniques utilized in the production process, and business applications involving decision-making under conditions of certainty, risk and competition. Coverage includes demand forecasting, production planning, and resource allocation.

***BAD 540. Foundations of Marketing, Management, and Organizational Behavior. (5-0-5)**

Special course for pre-MBA students with undergraduate majors in areas other than business. Prepares the student for graduate level coursework in management, marketing, and organizational behavior by study of fundamental principles and concepts in these areas.

*Denotes courses designed for pre-MBA students only. Appropriate undergraduate sequences also satisfy these requirements.

GRADUATE COURSES (BAD)**Required Courses****602. Managerial Microeconomics. (5-0-5)**

Price, output, and distribution theory. Economic behavior of households and firms. Prerequisite: Principles of Economics competency.

603. Information Systems. (5-0-5)

Total information systems for managerial strategy, planning and control. Prerequisite: Principles of Accounting competency.

606. International Business. (5-0-5)

An examination of the formulation and implementation of integrated corporate strategy by firms engaged in international business. The course examines diverse aspects of planning, direction and control of the flow of products, technology, capital, personnel, and funds linking the multinational company to its affiliates in a pluralistic political economic, and sociocultural environment. Prerequisite: Principles of Economics competency.

611. Decision Theory for Business. (5-0-5)

Decision-making under uncertainty and risk; utility theory; classical decision theory and its uses in business; risk functions and decision functions applied to business. The course also examines Bayesian decision theory and its uses in business; Bayes decision rules for discrete and continuous cases; value of information and its application to business. Prerequisites: Elementary Statistics competency.

620. Corporate Financial Policies. (5-0-5)

Analysis of financial problems and policies of corporations. Prerequisites: Principles of Business Finance and Elementary Statistics.

630. Managerial Cost and Control. (5-0-5)

The study of physical and monetary input/output relationships and use of such cost studies for managerial strategy, planning, and control. Prerequisite: Principles of Accounting competency.

650. Marketing/Management. (5-0-5)

An examination of new developments in the dynamic field of marketing from the viewpoint of the marketing decision maker. Prerequisite: Principles of Marketing.

662. Organizational Behavior and Theory. (5-0-5)

Study of human behavior in organizations from the behavioral science perspective. Special emphasis is placed on the structural and functional aspects of organizations, the relationships among modern organizations and their members, and the effects of such factors on organizational effectiveness.

655. Administrative Policy. (5-0-5)

Policy making and administration from the top management point of view, encompassing the entire field of business administration. Bayes decision rules for discrete and continuous cases; value of information and its application to business.

Electives**601. Macroeconomic Analysis. (5-0-5)**

National income accounting. Determinants of national income, employment, price level and growth rates. Prerequisite: Principles of Economics competency.

604. Business Relations with Government and Society. (5-0-5)

Business environment with consideration of the economic, legal, and social implications for policy making.

613. Administrative Communication. (5-0-5)

The role of communication in effective management; a study of foundation theory and principles for practical applications; communication problems within, between, and among organizations, industrial, and other groups; forms, media, and channels available for conducting effective communications in business and industry.

621. Investment Management. (5-0-5)

The theory and tools of analysis required in the management of financial assets from the viewpoint of the investor and the investment adviser. Investment media, markets, problems, practices, and philosophies will be studied. Prerequisite: Undergraduate or graduate Business Finance or equivalent.

622. Corporate Capital Markets and Institutions. (5-0-5)

A study of the flow of funds, credit instruments, role of capital institutions and the structure of interest rates.

645. Legal Aspects of Management. (5-0-5)

A study of the law regarding the powers, rights, liabilities and responsibilities of partners, officers, directors and shareholders in the management process, and the effects of antitrust regulations and securities regulations on the managerial decision-making process.

651. Marketing Case Problems. (5-0-5)

Specific case studies of profit and non-profit organizations are examined. Students will be expected to prepare realistic marketing programs that can be implemented to solve a variety of different marketing problems and/or opportunities. Spreadsheet analysis of marketing case information to be conducted on microcomputer as part of course requirements.

663. Industrial Relations. (5-0-5)

Modern industrial relations area and its background. Current problems in labor relations. Prerequisite: Principles of Economics competency.

698. Independent Study in Business. (5-0-5)

Independent research or directed readings in a specified area.

699. Special Topics in Business. (5-0-5)

Seminar in selected subject areas of special interest. Offered to address relevant or timely issues in business.

ECONOMIC EDUCATION GRADUATE COURSE DESCRIPTIONS

600. Dynamics of the American Economy. (5-0-5)

This course is designed for teachers and consists of a comprehensive overview of the American economic system, with particular emphasis upon critical economic issues that influence society. Teaching methodology, applications, and materials development are presented as an integral part of the course.

610. Personal Finance. (5-0-5)

This course is designed for teachers and covers the basic elements of personal finance needed by individuals and family units in making wise decisions in today's society. Concepts covered include: assessment of individual resources, selective spending, credit, taxes, insurance, savings, investments, and budgeting. The course includes learning activities, curriculum development, and skills acquisition. An introduction to the use of computers in personal finance is integrated into the course.

INTERNATIONAL STUDENTS

A student from a country other than the United States who is interested in attending Savannah State College should write to the Director of Admissions, Savannah State College, Savannah, Georgia 31404 U.S.A. The student must meet the following requirements for admission.

1. A completed application for admission with a \$10 application fee, which must be in the form of a money order or a certified check. This application must be submitted at least 30 days prior to the beginning of the quarter for which the student wishes to be admitted.
2. An official transcript(s) of the student's academic record with an official translation must be mailed to the Admissions Office.
3. A prospective student must submit evidence of financial ability to pursue his/her education full time in this country. No financial aid is available for international students. All international students are required to pay out-of-state tuition, unless they are under the sponsorship of an approved local organization. It is required that the student take the Test of English as a Foreign Language (TOEFL) and ask that the results be sent to Savannah State College. The minimum acceptable TOEFL score of 500 is required for admission of foreign students.

After the completed application form is returned, along with all other necessary materials, the applicant will be sent an I-20 Form. If this I-20 Form is not used for the quarter applied, it must be returned for our records before another can be issued.

There is an International Student Club and an International Student Advisor to assist international students in adjusting to campus life. All international students should confer with the international students' advisor (Dr. K.B. Raut, Room 231, Griffin-Drew Hall) upon arrival on campus.

REFUND OF FEES

Students ill at home or otherwise unable to follow the official procedure for withdrawing, should write or have someone write to the Dean of Students requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of the term. The matriculation fee and nonresident fee are subject to the following refund policy which was adopted by the Board of Regents on January 20, 1947:

For students who withdraw during the first 7 days (including the first day of registration) of the quarter, 80% of the fees may be refunded; for students who withdraw during the second 7-day period a refund of 60% will be made; for students who withdraw no later than the end of the third 7-day period following registration, a refund of 40% may be granted. For students who withdraw during the fourth 7-day period following registration date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth 7-day period following registration. (Only matriculation and non-resident fees will be refunded.)

Room, board and laundry charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitories must secure a permit from the personnel dean. This permit when submitted with the dining hall meal book will entitle the student to a refund.

The student activity and health fees are not refundable. In addition, refunds will not be made to students who do not withdraw officially; nor will refunds be given for reduced loads.

All refunds will be processed and mailed to the students within two weeks following the end of the refund period.

VEHICLES USE ON CAMPUS —“All vehicles owned or used on campus by members of the student body, faculty, and staff of Savannah State College will be registered with the Business Office in accordance with current directives. Additional details on registration should be obtained at the Office of Security. A valid driver's license, motor vehicle registration papers, and proof of insurance are required.

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES*

Dr. Ja A. Arthur Jahannes, Dean

Dr. Linnie Darden
Assistant to the Dean

Mrs. Jyoti Krishnamurti
Secretary to the Dean

The School of Humanities and Social Sciences is comprised of five departments: the Department of Fine Arts, the Department of Humanities, the Department of Recreation, the Department of Social and Behavioral Sciences; and the Department of Social Work and Applied Sociology. The School offers majors in English, mass communications, music, history, criminal justice, social work, sociology, political science, recreation and parks administration, and urban studies. Minors are offered in the following areas: mass communications, English, art, music, religious and philosophical studies, Afro- American studies, psychology, history, sociology, social work, criminal justice, international studies, gerontology, political science, recreation and parks administration, urban studies, voice, dance, and theatre. A Master of Public Administration is also offered in the school.

The general objectives of the School of Humanities and Social Sciences are consonant with the objectives of the College. Specific objectives of the School are as follows:

1. To offer baccalaureate programs of study in the humanities, the social and behavioral sciences, and recreation and parks administration.
2. To prepare students for professional and graduate study in the humanities, the social and behavioral sciences, and recreation.
3. To offer vocational preparation in mass communication and criminal justice.
4. To foster communication with and understanding of other nations and cultures through the study of language, literature, fine arts, and social and behavioral sciences.
5. To offer interdisciplinary studies in humanities, fine arts, and social and behavioral sciences.
6. To encourage research, field study, and creative endeavors in humanities, fine arts, social and behavioral sciences, and recreation and parks administration.
7. To utilize the rich potential of the local urban environment as a learning laboratory in the humanities, fine arts, social and behavioral sciences, and recreation.

DEPARTMENT OF FINE ARTS

ROBERT L. STEVENSON, Head

Clara Agüero
Alfred L. Davis

Willie Jackson
Farnese Lumpkin

Christine E. Oliver

The Department of Fine Arts offers courses leading to a Bachelor of Arts (BA) degree in Music; there are concentrations to fit the student's interest in several areas, such as history and literature, theory, performance. If a student wishes to be certified as a public school teacher, he/she may take education courses at Armstrong State College. A minor in music is available. Students interested in Art can acquire a minor. Courses are available in drawing, crafts, ceramics, history, sculpture, photography, and printmaking. Minors in performance in voice, dance, and theatre are also available.

ADMISSION TO THE MUSIC PROGRAM

It is desirable that all applicants for admission to the major program in music will have at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude test and individual auditions the applicants theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work. Students in music are required to do a senior recital.

MUSIC CURRICULUM

JUNIOR COLLEGE CURRICULUM: 98 Quarter Hours

Core Curriculum Requirements: 90 hours

Area I - Humanities: 20 hours

English 107-108-109 15 hours

Humanities 232, 233 or 234	10 hours
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Area II - Mathematics and Natural Sciences: 20 hours

Mathematics 107	5 hours
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Biology 123-124	10 hours
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Physical Science 200	5 hours
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Area III - Social Sciences: 20 hours

History 101-102-202 or 203	15 hours
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Political Science 200 5 hours

Area IV - Courses Appropriate to the Major: 30 hours

Humanities 233 or 234	5 hours
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Music 021, 041, 051	1 hour
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Music 101, 102, 103	1 hour
Music 110	3 hours

Music 111-112-113	9 hours
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Music 211-212-213	9 hours
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Music 111 or 112 or 113	3 hours
Music 121 or 131 or 141	3 hours

Additional Requirements: 9 hours

Physical Education	6 hours
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EXIT FROM THE MUSIC PROGRAM

In addition to successfully completing all course work, each student must participate in one or more of the music activities (chorus or band). Moreover, there will be student recitals and jury examinations. Each student must also pass an exit examination.

SENIOR COLLEGE REQUIREMENTS: 95 Quarter hours

Major Requirements: 44 hours as specified

Music 124 or 134 or 144	3 hours
Music 221 or 231 or 241	3 hours
Music 224 or 234 or 244	3 hours
Music 321 or 331-332-333 or 341-342-343	3 hours
Music 307-311-314-315-316-407-411-412	24 hours
Music 324 or 334 or 344	3 hours
Music 421 or 431 or 441	1 hour
Music 424 or 434 or 444	1 hour

Academic Minor 29 hours

Music Electives: Theory, Literature 9 to 15 hours

Specific Electives: 14 hours

Music 020 or 040	4 hours
French 141, German 151	10 hours

Minor in Voice:

*Music 040	1-2 hours
Music 111	3 hours
Music 131	1 hour
Music 144	1 hour
Music 244	1 hour
Music 306	3 hours
Music 314-315-316	9 hours
Music 341	1 hour
Music 344	1 hour
Music 400	2 hours

Minors in Vocal Performance are encouraged to continue with the choir for four years. In addition, each student must present a thirty minute recital (A major role in a musical or an opera may fulfill this requirement, with consent of advisor).

*Minor in Performance in Dance (Listed in Recreation Dept.):

Rec. 103	3 hours
Rec. 140	2 hours
Rec. 141	2 hours
Rec. 300	3 hours
Rec. 400	3 hours
Rec. 403	3 hours
Rec. 417	3 hours
Rec. 470	3 hours
Rec. 234	1 hour
Rec. 235	1 hour

Minors in Performance in Dance are expected to gain experience by working with theatre and other groups, as advised.

*Minor in Theatre (Courses listed in Humanities Dept.)

Eng. 201	3 hours
Eng. 202	2 hours
Eng. 203	3 hours
Eng. 308	3 hours
Eng. 406	5 hours
Eng. 411	5 hours
Eng. 412	3 hours
Eng. 413	5 hours

* Six quarters of participation with drama is required.

DESCRIPTION OF COURSES

MUSIC (MUS)

Band and Choral Organizatons are open for elective credit to students; participation by music majors is required for four years.

020. Band. 1-2 credit hours.

Credit limited to 1 hour per quarter for music majors. *Fall, Winter, Spring.*

040. Choral Organizations (formerly Men's and Women's Ensembles). 1-2 credit hours.

Credit limited to 1 hour per quarter for music majors. *Fall, Winter, Spring.*

100. Fundamentals of Music. (3-0-3)

A course in rudiments of music designed for non-music majors.

110. Introduction to Music Literature. (3-0-3)

Survey course for the improvement of musical standards. Elements of music; composers and their contributions in different periods of musical development; acquaintance with orchestra and other instruments and voice ranges. Includes style developments in their historical settings. *Winter.*

111-112-113. Theory I (Ear-training and Sight-Singing). (1-4-3)

A course in notation, time signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading and musical dictation. *Fall, Winter, Spring.*

***121. Fundamentals of Band Instruments. (1-0-1)**

Brass, Woodwind, and Percussion. Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signature, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments. *Fall, Winter, Spring.*

***124. Applied Major Area— Band Instruments. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled and periodic performance will be expected of the student during each year of training. *Fall, Winter, Spring.*

***131. Fundamentals of Piano. (1-0-1)**

These courses introduce techniques and basic musical knowledge such as notes, time signature, tempo markings, fingering, and phrasing. *Fall, Winter, Spring.*

***134. Applied Major Area— Piano. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

***141. Fundamentals of Voice. (1-0-1)**

Vocal technique, diction, breathing, and posture are stressed and applied to songs with specific vocal problems. *Fall, Winter, Spring.*

*These courses must be taken for three quarters until a total of three hours has been amassed.

***144. Applied Major Area— Voice. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the students with consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

151. Class Guitar. (1-0-1)

Course designed for non-guitar majors. Emphasis given to techniques for accompaniment and recreational purposes. Open to all students.

161-162. Class Piano. (1-0-1)

Course designed for beginning piano students. Emphasis given to music reading and elementary techniques. Designed for non-music majors.

200. Survey of Music History. (3-0-3)

The history of music with emphasis on genres, style changes and cultural forces. Open to all students.

201. Church Music I: Music Worship. (2-0-2)

Biblical and philosophical bases of worship, the church year, various liturgies, music in the free church.

202. Church Music II: Hymnody. (2-0-2)

Biblical and early Christian hymns, Latin Hymnody, the chorale, psalmody, English and American hymnody, gospel song, contemporary trends.

203. Church Music III: Children Choirs. (2-0-2)

The multiple choir system. Teaching religion through music. Music materials for children.

210. Afro-American Music. (3-0-3)

A cultural analysis of African folk music and its influence upon the development of spirituals, work songs, and jazz. Contributions of Afro-American music to both popular and classical traditions will be studied. *Fall, Winter, Spring. Elective.*

211-212-213. Theory II. (1-4-3)

A continuation of Theory I. Diatonic harmony, modulation, chromatic chords, modes, harmonizations from melody and bass, analysis of examples.

***221. Intermediate Band Instruments. (1-0-1)**

Brass, Woodwind and Percussion. A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, brass, and kettle drums. *Fall, Winter, Spring.*

***224. Applied Major Area-Band Instruments. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

*These courses must be taken for three quarters until a total of three hours has been amassed.

***231. Intermediate Piano. (1-0-1)**

A continuation of MUS 131-132-133. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals. *Fall, Winter, Spring.*

***234. Applied Major Area-Piano. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

***244. Applied Major Area-Voice. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with consent of his advisor. Regular lessons are scheduled and periodic performances will be expected of the student. *Fall, Winter, Spring.*

303. Chamber Music Literature. (3-0-3)

A survey of chamber music from 1750 to present. Alternate years.

305. Choral Literature. (3-0-3)

The literature and performance practices of various periods, the history of choral music, study of representative works of English, Italian, German and American composers. *Spring.*

306. Choral Techniques. (3-0-3)

This course is designed to develop basic techniques for choral musicians. Meter pattern, preparatory beats, cueing, diction, blend, balance, and intonation are discussed. *Elective.*

307. Orchestration and Instrumentation. (3-0-3)

A study of the range, playing techniques, and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. *Fall.*

309. Jazz Arranging. (3-0-3)

Chord structure and progressions, rhythms, voicing and instrumentation, scoring, arranging applied to jazz. Prerequisite: MUS 213. *Spring.*

310. Jazz Ensemble. (3-0-3)

This course is designed to expose the student to composers and arrangers of jazz, rock, and soul music. Improvisation is also included. *Fall, Winter, Spring. Elective.*

*These course must be taken for three quarters until a total of three hours has been amassed.

311. Theory III (Form and Analysis). (3-0-3)

A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analysis of pieces by major composers. *Spring.*

314-315-316. History and Literature of Music. (3-0-3)

A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development. *Fall, Winter, Spring.*

317. Symphonic Music Literature. (3-0-3)

Orchestral music from the 18th century through the present. Alternate years.

***321. Advanced Band Instruments. (1-0-1)**

Brass, Woodwind, and Percussion. Emphasis is placed on building a music library of concert materials and methods. Wind instrument players will develop their ability to execute with facility and will study various percussion instruments of definite pitch. *Fall, Winter, Spring.*

***324. Applied Major Area— Band Instruments. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

***331. Advanced Piano. (1-0-1)**

Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed. *Fall, Winter, Spring.*

***334. Applied Major Area— Piano. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

***341. Applied Voice. (1-0-1)**

The continuation of vocal technique studies in previous courses. Vocal forms in several languages will be introduced. *Fall, Winter, Spring.*

***344. Applied Major Area— Voice. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

400. Vocal Pedagogy. (2-0-2)

Methods and materials for the studio.

401. Piano Pedagogy. (2-0-2)

Methods and materials for teaching individuals and classes of both children and adults. (Demonstration hours included.) *Spring.*

403. Keyboard Literature (1700-1850). (3-0-3)

Literature for stringed keyboard instruments from one of Bach and his contemporaries through early romantics. Historical, stylistic, formal and aesthetic features. *Fall.*

405. Piano Literature (1850 to present). (3-0-3)

Historical, stylistic features late romantic through present period, including works by Afro-American composers. *Winter*.

*These courses must be taken for three quarters until a total of three hours has been amassed.

406. Opera and Art Song Literature. (3-0-3)

Listening with scores to representative opera and art song selections from various historical periods. *Alternate years*.

407. Conducting. (3-0-3)

A study of the techniques of conducting and interpretation. *Fall*.

409. Introduction to Musicology. (3-0-3)

Prerequisite: All music history, form and analysis, counterpoint. Reading research literature and studying examples of music from various epochs and cultures.

410. Modern Music. (3-0-3)

A study of compositions written since 1900 with particular emphasis upon recent developments in form, compositional techniques, and new media of musical expression. *Alternate years*.

411-412. Theory IV Counterpoint and Composition. (3-0-3)

Concurrence and dissonance; specie counterpoint in several parts, simple fugues, twentieth century linear techniques. *Fall, Winter*.

413. Seminar in Composition. (3-0-3)

Creative work in small and larger forms.

421. Senior Band Instruments. (1-0-1)

Brass, Woodwind and Percussion. Continued emphasis is placed on building a music library, concert materials, and methods. Stress is placed on complete mastery in playing and in public performances. *Fall*.

424. Applied Major Area - Band Instruments. (1-0-1)

This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall*.

431. Senior Piano. (1-0-1)

Concert Repertoire and public performances will be stressed. *Fall*.

434. Applied Major Area - Piano. (1-0-2)

This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall*.

441. Senior Voice. (1-0-1)

During this quarter, the student will concentrate primarily on perfecting his repertoire. *Fall*.

444. Applied Major Area— Voice. (1-0-1)

This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor.

DESCRIPTION OF COURSES

ART (ART)

103. Basic Design. (1-8-5)

An introduction to the core principles and elements of graphic and plastic design. Problems and discussion evolve around two and three dimensional design. *Fall*.

108. Drawing. (0-8-4)

The basic elements of drawing— form, contour, gesture, perspective, proportion, and texture— are taught through the use of charcoal, conte crayon, pencil, pen and ink, and wash. Drawing from models, still life and landscape gives the student a sound knowledge of drawing and construction. Prerequisite: ART 103 or permission of instructor. *Winter*.

109. Drawing II. (0-8-4)

Portrait and figure drawing, study of anatomy as to proportion and balance of the human figure. Drawing from the live model with an emphasis on structure, interpretation and movement. The course develops accurate observations, the understanding of the human figure, and an effective use of drawing media. Prerequisite: 108 or permission of instructor. *Spring*.

200. Lettering. 4 Hours (Nine contact hours) (0-9-4)

Principles of lettering as used in Printing today. Study of typography in relation to lettering and design. Study of classic and modern letter forms with emphasis on design. Practice in Roman, Gothic and script alphabets.

201. Illustration I. 4 Hours (nine contact hours) (0-9-4)

Exploration with drawing, painting and visual media of illustrative techniques. Study of spot drawing in black and white and black half tones used for reproduction material. Drawing skills are perfected. Prerequisite: Drawing I, II, or permission of instructor.

202. Illustration II. 4 Hours (nine contact hours) (0-9-4)

Continued experimentation of illustrative techniques and development of personal styles. Two and four color study of drawings for reproduction in magazines and newspapers. Drawing skills are perfected. Prerequisite: Illustration I.

216. Crafts I. (0-6-3)

Experiences in significant craft materials: wood, fabrics, fibers and metal. Students will learn elementary on and off loom weaving techniques, fabric printing and painting, jewelry and metal projects, macrame, and techniques of wood crafts. Prerequisite: ART 108. *Fall*.

217. Crafts II. (0-6-3)

A continuation of ART 216. *Winter or Spring*.

238. Ceramics I. (1-4-3)

An initial study of ceramic processes such as modeling, handbuilding, stacking, firing, glazing, and decorating ceramic forms. *Fall*.

239. Ceramics II. (0-6-3)

A continuation of ART 238. Emphasis on design, decorating, and basic wheel techniques. *Winter*.

240. Ceramics III. (1-8-5)

A study of ceramic materials and processes used in designing, constructing, glazing and firing earthenware and stoneware clays. There will be opportunities to do advanced hand-building and wheel work, and to build small ceramic sculpture. *Spring.*

300. Graphic Design I. 4 Hours (nine contact hours) (0-9-4)

Introduction to the use of various drawing instruments, techniques, and graphic media including technical and perspective drawing. Prerequisite: Drawing I, II or permission of instructor.

301. Graphic Design II. 4 Hours (nine contact hours) (0-9-4)

A continued investigation in graphic art tools and materials, emphasizing drawing, illustration and painting techniques. Prerequisite: Graphic Design I.

302. Photography I. (1-4-3)

An introductory course which emphasizes the basic principles and practices of black and white photography, including camera work and darkroom techniques. Special assignments and evaluations. 3 hours credit.

303. Photography II. (1-4-3)

A continuation of principles and techniques introduced in Photography I, with emphasis on the application of and refinement of printing techniques. Special assignments and evaluations. Prerequisite: Photography I. 3 hours credit.

322. Painting I. (0-10-5)

An introduction to painting media and techniques of oil, acrylic or watercolor. *Winter.*

323. Painting II. (0-10-5)

A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. *Spring.*

333. Sculpture. (0-10-5)

A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. *Spring.*

350. History of Art I. (3-0-3)

A chronological perspective of art history from pre-historic times to the Renaissance. *Fall.*

351. History of Art II. (3-0-3)

A chronological perspective of art history from the Renaissance to the end of the nineteenth century. *Winter.*

352. History of Art III. (3-0-3)

A chronological perspective of art history of the twentieth century including a study of the major achievements and expressional trends in architecture, painting, sculpture and graphic art. *Spring.*

430. Printmaking I. (1-6-4)

Designed to provide creative experiences in the reproductive arts. Experiences evolve around monotype and linoleum, also initial experiences in advanced forms of printmaking, such as lithographs. Discussion on survey of world printmakers. *Fall.*

431. Printmaking II. (1-8-5)

This is a comprehensive course designed explicitly for printmaking in the community. Experiences will be offered in relief and intaglio prints, paperplate lithograph, stencil and fabric printing. *Winter.*

432. Printmaking III. (0-10-5)

This course is designed to explore new techniques, ideas, and combinations in Printmaking. It emphasizes innovations such as collagraphs, woodcuts on textiles, silkscreen, and combinations of woodcuts or silkscreen with etchings or collagraph. *Spring. Elective.*

DEPARTMENT OF HUMANITIES

LUETTA C. MILLEDGE, Head

Yvonne Abner, Laboratory Technician Oscar C. Daub James A. Eaton Charles J. Elmore Norman B. Elmore Janie Fowles Carol P. Gordon, Manager, WHCJ Lolita Harris Leroy Haven, Laboratory Technician Novella C. Holmes Drusilla Ice	Michael K. Maher Yvonne H. Mathis George J. O'Neill Linda Peerson Gloria Shearin Robert L. Stevenson Teresa Styles Gina P. Taylor, Laboratory Technician Alma S. Williams Frank D. Williams Gloria Blalock, Secretary
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N.B. Alexander Stoddart (B.F.A., University of Miami) and William A. Wood (A.B. Stanford) are frequently employed as part-time instructors in mass communications. These persons are nationally recognized media experts.

The Department of Humanities offers courses leading to the baccalaureate degree in two areas: English language and literature and mass communications. Minor programs in English, mass communications, and religious and philosophical studies are available. The Department promotes an extensive, interdisciplinary approach that encourages investigation in cognate areas and allows for individualization of interests and pursuits.

In a world of rapidly increasing technological sophistication, the urgent issues confronting individuals and societies are issues of human values and the relationships between what human beings can do and what they ought, or ought not, to do. The ultimate aim of the Department of Humanities is to develop in each student an awareness and appreciation of his/her personal identity and social heritage. Such awareness and appreciation should cultivate in the student a quality of mind marked by analytical, constructive, imaginative, and creative inquiry and thought. To foster the development of such intellectual and humane capabilities, the Department helps the student by promoting: (1) oral and written proficiency in English, including an appreciation for linguistic plurality; (2) critical knowledge and consequent appreciation of the literary and performing arts; (3) affective, aesthetic, and intellectual flexibility; (4) analytical awareness of language uses in varied settings; (5) advocacy of humane spirit and values; and (6) a spirit of cooperation with community persons and groups working toward similar humanistic and social goals.

The Department of Humanities provides opportunities for the study and analysis of language, literature, art, music, mass media, philosophy, and religion. These studies and analyses are intended to motivate the student to acquire a more profound understanding and appreciation of the humane spirit, to enliven imagination and inventiveness, to expand aesthetic horizons, and to probe and cultivate individual and social identity. Additionally, the Department encourages the student to utilize resources and opportunities of the proximate urban area as well as to share with it his interests, talents, and achievement. The student engaging in these activities and accomplishing these purposes may be expected to become an intellectually aware, sensitive, flexible, effective citizen, equipped to contribute to society through the maintenance of humane perspectives and values.

PLAN OF STUDY FRESHMAN ENGLISH

Entering freshman students whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test (SAT) meet the requirements of regular admission are placed in English 107.

Applicants for admission whose SAT scores do not meet the requirements for regular admission must take the Basic Skills Examination (BSE) in English, reading, and mathematics. On the basis of their performance on the English test (including a writing sample), these students are assigned to English 107 or to English courses in the Developmental Studies Department.

THE ENGLISH LANGUAGE AND LITERATURE MAJOR

A student majoring in English language and literature must include two period courses (301 or 303 or 305; 306 or 307); two courses in American literature (220, 221), one course in world literature (331), three seminars in English (450-451-452); two courses in linguistics (321, 322); and one author course (401).

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

THE ENGLISH LANGUAGE AND LITERATURE MINOR

A minor in English consists of a minimum of twenty-five hours *beyond* English 109. It must include one course in American literature, one course in English literature, one genre course, and one seminar in English.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Humanities is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).
2. Senior English majors are required to take the Advanced Test in Literature of the Graduate Record Examination (GRE).
3. Senior mass communications majors must take a departmental examination.

CURRICULUM FOR MAJORS IN ENGLISH LANGUAGE AND LITERATURE

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours:

Area I— Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II— Mathematics and Natural Science: 20 hours required

Mathematics 107, 108, 110	5-10 hours
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Ten-hour laboratory sequence from the following:

Biology 123-124	
Chemistry 101-102	
Physics 201-202 or 201-203	10 hours
Physical Science 203-204	5-10 hours

Area III— Social Science: 20 hours required

History 202 or 203	5 hours
Political Science 200	5 hours
History 101	5 hours
History 102, Social Science 111 or PSY 201	5 hours

Area IV— Courses Appropriate to the Major: 30 hours
required

English 204	5 hours
English 210 or 211	5 hours
Humanities 233	5 hours

A sequence from the following:

French 141-142-143	
German 151-152-153	
Spanish 161-162-163	15 hours

Additional Requirements:

Physical Education	6 hours
General Education 100	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 96 quarter hours

Major Requirements: 51 hours as specified

English 210 (or 211) - 220-221-301 (or 303 or 305) - 306 (or 307-321-322-331-401-413-450-451-452)	46 hours
Philosophical Studies	5 hours
English Electives (including Humanities 234)	12 hours
General Electives	8 hours
Minor Field	25 hours

CURRICULA FOR MAJORS IN MASS COMMUNICATIONS

The student majoring in Mass Communications has the option of concentrating in one of the following: electronic media, news-editorial, media management/marketing or performing arts. These interdisciplinary curricula offer the student

a broad background in the liberal arts, a solid foundation in the area of specialization, and an opportunity to elect a minor in a related field. The program features an audio/video training laboratory. WHCJ, the College radio station, provides campus internship opportunities for students.

All Mass Communications majors are required to take the MASS COMMUNICATIONS CORE, comprised of these six courses:

COM 110 Introduction to Mass Communications	(3-0-3)
COM 200 Basic Newswriting	(5-0-5)
ENG 201 Principles of Speech	(3-0-3)
COM 215 Writing for Radio and T.V.	(5-0-5)
(Prerequisite: COM 200)	
COM 312 Public Relations Practices	(5-0-5)
COM 491 On-Campus Media Internship	(2-8-5)

CORE CURRICULUM REQUIREMENTS: 99 hours

(ALL OPTIONS)

Area I— Humanities: 20 hours

English 107-108-109	15 hours
Humanities 232	5 hours

Area II— Mathematics and Natural Sciences: 20 hours

required Mathematics 107, 108, 210	5-10 hours
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Ten-hour laboratory sequence from the following:

Biology 123-124	
or	
Chemistry 101-102	
Environmental Studies 201	5 hours
and	
Biology 204	2 hours
or	
Earth Science 221	5 hours
or	
Physical Science 203	5 hours
or	
Physics 201	5 hours

Area III— Social Science: 20 hours

History 101	5 hours
History 102	5 hours
History 203	5 hours
Political Science 200	5 hours

Area IV— Courses Appropriate to the Major: 30 hours

required	
Social Science III	5 hours
Communications 110	3 hours
Communications 200	5 hours
English 201	3 hours

A sequence from the following: 15 hours

French 141-142-143
German 151-152-153
Spanish 161-162-163

Additional Requirements:

Physical Education	6 hours
General Education 101	2 hours

SENIOR CURRICULUM**OPTION I— CONCENTRATION IN ELECTRONIC MEDIA**

Major Requirements: 95 hours as specified

English 204, Communications 215, 216, 245, 312, 353, 354, 375, 462, 491, 492	55 hours
Mass Communications Electives	5 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: Political Science, International Studies, Urban Studies, Criminal Justice, Psychology, English, Art, Music, Electronics-Physics)	

OPTION II— CONCENTRATION IN NEWS-EDITORIAL

Major Requirements: 95 hours as specified

English 204, Communications 213, 215, 216, 240, 310, 311, 312, 320, 375, 491, 492	55 hours
Mass Communications Electives	5 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: English, Art, Social Sciences, Music, Science)	

OPTIONS III— CONCENTRATION IN PERFORMING ARTS

Major Requirements: 95 hours as specified

Communications 215, 312, 332, 470, 491, 492, 497, 498 English 202, 203, 308, 406, 411, 413, 417	51 hours
Mass Communications Electives	9 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: Art, Music, Psychology, English, Religious and Philosophical Studies, Recreation and Parks Administration)	

OPTION IV— CONCENTRATION IN MEDIA MANAGEMENT

Major Requirements: 95 hours as specified

English 204 Economics 201, 202 Business Administration 360, 403, 462 Communications 215, 312, 380, 463, 491, 492	69 hours
Mass Communications Electives	10 hours
Minor Field	25 hours
(Suggested areas: Business Administration Economics, Management, Psychology)	

THE COMMUNICATIONS MINOR

The minor in Mass Communications is designed to prepare students for careers and/or advanced study in electronic and print media.

The minimum requirement for a minor in communications is twenty-five (25) quarter hours.

THE RELIGIOUS AND PHILOSOPHICAL STUDIES MINOR

The minor in Religious and Philosophical Studies is designed to provide the student with a broad humanistic background in religion and philosophy and to offer the student expanded opportunities to pursue liberal studies.

In addition to providing courses for a minor and for electives, the program offers pre-professional preparation for graduate study in religion or theology.

The minor consists of twenty-eight to twenty-nine (28-29) hours of course work.

COURSE DESCRIPTIONS

HUMANITIES

***200. Topics in the Humanities. (2-0-2 to 5-0-5)**

Selected topics in one or more of these areas: language, literature, mass communications, religion, and philosophy. Prerequisite: ENG 109. *Upon demand.*

232. Introduction to the Humanities. (5-0-5)

An interdisciplinary survey of the art, architecture, literature and music of ancient Africa, of Graeco-Roman culture, of the Juedo-Christian tradition and the Middle Ages. Prerequisite: ENG 109. *All quarters.*¹

233. Introduction to the Humanities. (5-0-5)

An interdisciplinary survey of the art, architecture, literature and music of the Renaissance, Neo-classical, and Romantic periods. Prerequisite: ENG 109. *All quarters.*

234. Introduction to the Humanities. (5-0-5)

An interdisciplinary survey of the art, architecture, literature and music of the twentieth century. Prerequisite: ENG 109. *All quarters.*

301. World Religions. (5-0-5)

An introduction to the religions of the world, with attention to milieu and emphasis upon the irenic approach. *Winter.*

¹Unless otherwise indicated, satisfactory completion of the Sophomore Humanities requirement is prerequisite to enrollment in any course numbered 300 or above.

ENGLISH

092. Writing Skills. (5-0-5)

Intensive study and practice in writing. Designed for students who fail essay section of the *Regents'* Testing Program. Passing contingent upon passing RTP. Institutional credit. *All quarters.*

093. Reading Skills. (5-0-5)

Intensive study and practice in reading. Designed for students who fail the reading section of the *Regents'* Testing Program. Passing contingent upon passing RTP. Institutional credit. *All quarters.*

107. English Communicative Skills. (5-0-5)

Designed to develop skills in reading, writing, and speaking. Minimum passing grade is C. *All quarters.*

107FS. English Communicative Skills. (5-0-5)

For students whose native language is not English. Designed to develop skills in reading, writing, and speaking. Minimum passing grade is C. *Fall.*

108. English Communicative Skills. (5-0-5)

Designed to develop competence in the English communicative skills, with particular emphasis upon critical thinking and writing. Minimum passing grade is C. Prerequisite: English 107 or English 107FS. *All quarters.*

109. English Communicative Skills (5-0-5)

Designed to develop competence in the English communicative skills, with particular emphasis upon research procedures and writing. Minimum passing grade is C. Prerequisite: English 108. *All quarters.*²

201. Principles of Speech. (3-0-3)

Study and practice in speech preparation and delivery. Elements of speech production, types of speeches, and oral interpretation are emphasized. *Winter, Spring.*

202. Voice and Diction. (2-0-2)

Study and practice in effective voice production, with emphasis upon breath control, posture, articulation and pronunciation. *Fall.*

203. Oral Interpretation. (3-0-3)

Intensive study and practice in the oral interpretation of poetry and prose. Emphasis on both individual and group activity. *Spring.*

204. Advanced Composition. (5-0-5)

Intensive study of the theory and practice in writing the basic composition forms. Prerequisite: ENG 109. *Fall.*

210. Introduction to English Literature. (5-0-5)

A survey of English writing from Beowulf to the Romantic Period. Prerequisite: ENG 109. *Spring.*

211. Introduction to English Literature. (5-0-5)

A survey of English writing from the Romantic Period to the Contemporary Period. Prerequisite: ENG 109. *Fall, Summer.*

²Unless otherwise indicated, satisfactory completion of English 109 is prerequisite to enrollment in any course numbered 200 or above.

220. American Literature from the Colonial Period to 1865. (5-0-5)

A study of the main currents of thought and expression in America before 1865. Prerequisite: ENG 109. *Winter, Summer.*

221. American Literature Since 1865. (5-0-5)

A study of the main currents in literary thought and expression in America from 1865 to the present. Prerequisite: ENG 109. *Spring.*

301. English Literature of the Seventeenth Century. (5-0-5)

A survey of the important writers—their styles, subject matter and philosophies. Special emphasis upon the works of Milton, Dryden, and Bacon. Prerequisite: ENG 210 or 211, 204. *Winter.*

303. The English Romantic Movement. (5-0-5)

The genesis of the Romantic theory and the beginning of the Romantic revolt in English; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats, in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. Prerequisite: ENG 210 or 211, 204. *Winter.*

305. Victorian Prose and Poetry. (5-0-5)

An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. Prerequisite: ENG 210 or 211, 204. *Winter.*

306. Contemporary Prose and Poetry. (5-0-5)

A survey of the major trends and themes in world literature, including American, from World War I to the mid-twentieth century. Prerequisite: ENG 210 or 211, 220 or 221, and 204 or 207. *Spring.*

307. Major Authors Since 1950. (5-0-5)

A survey of major trends and works in world literature, including American, of recent times. Prerequisite: same as for ENG 306. *Spring, alternate years.*

308. Elementary Acting. (3-0-3)

Study and practice in the fundamentals of acting technique based on play and character analyses. The importance of voice, posture, gesture, and movement in theatrical expressiveness will be emphasized, using speeches and short scenes from the world's best dramas. *Fall, Spring.*

315. West African Literature. (3-0-3)

An introduction to the Literature of West Africa, with emphasis upon the oral tradition and its influence on contemporary Black American literature. *Winter.*

316. The Poetry of the Black American. (3-0-3)

An intensive study of the poetic contribution of Black Americans, with an examination of social and other forces which have contributed to its development. *Spring.*

321. Introduction to Language Study. (3-0-3)

A general survey of linguistic science with emphasis on phonetics, morphology, syntax, and socio-linguistics. Prerequisite: ENG 109. *Fall, Spring.*

322. The History of the English Language. (3-0-3)

A study of the historico-comparative method, linguistic change, and the history of the English language, with extensive treatment of the development of English in America. Prerequisite: ENG 321. *Winter, Summer.*

331. Literary Analysis and Criticism. (3-0-3)

For English majors. A study of masterpieces other than English and American. *Fall, alternate years.*

333. Creative Writing. (3-0-3)

Instruction and practice in techniques of writing poetry, familiar essay, short story, and drama. Prerequisite: ENG 109. Consent of instructor. *Spring, alternate years.*

341. The Metrical Tale and Romance. (3-0-3)

A study of the medieval narrative with particular emphasis upon Chaucer's poetry. *Winter, alternate years.*

342. The Epic Tradition. (3-0-3)

A study of the epic from classical antiquity to Milton. *Spring, alternate years.*

401. Shakespeare. (5-0-5)

Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. *Fall.*

403. Criticism. (3-0-3)

Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to the persistent, as well as new, forms and techniques. Prerequisite: ENG 210 or 211, 331 or 332. *Spring.*

405. The English Novel. (5-0-5)

As evaluative study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. *Winter.*

406. Introduction to Drama. (5-0-5)

Chronological study of drama, with emphasis on selected writers and their works. Consent of instructor. *Spring.*

411. Play Production. (5-0-5)

A critical study of the types of plays with general principles of directing for each type; editing the script; the fundamentals of casting, lighting, makeup; etc. Prerequisite: ENG 109. *Winter.*

412. Play Auditioning and Direction. (3-0-3)

Emphasis upon current practices in auditioning for theatre companies and selected casting, directing, and staging the play. Students may use either their own works or an established one-act play. Prerequisite: ENG 441. *Spring, alternate years.*

413. Advanced Speech. (5-0-5)

Emphasizes self-improvement in all phases of diction and delivery; provides experience in various speaking situations. Consent of instructor. *Winter, alternate years.*

416. The Black Theater. (3-0-3)

An examination of the contributions of Blacks to American drama. Traces the development of Black theater from minstrels to modern theater workshops. *Spring, alternate years.*

417. The Novel of the Black American. (3-0-3)

A critical study of the novels created by Blacks in America, with analysis of the literary aspects and racial themes of these novels. *Spring, alternate years.*

450-451-452. Seminar in English. (1-0-1)

Special problems in English. Reports and research techniques. Prerequisite: Junior standing. Three courses required of all majors in either their junior or senior years. *Fall, Winter, Spring.*

MASS COMMUNICATIONS

110. Introduction to Mass Communications. (3-0-3)

Designed to acquaint the beginning journalist with the fundamental elements of the mass media. *Fall, Spring.*

200. Fundamentals of Newswriting. (5-0-5)

Major emphasis on writing various types of news stories under the close supervision of an instructor. Prerequisite: ENG 109. *Fall, Spring.*

213. History of Journalism. (3-0-3)

A historical survey of the principal developments in journalism from the eighteenth through the twentieth centuries. *Spring, alternate years.*

214. Contemporary American Newspapers. (3-0-3)

A detailed study of representative contemporary American newspapers and magazines. Prerequisite: COM 213. *Winter.*

215. Writing for Radio and Television. (5-0-5)

A study of the basic characteristics of writing for radio and television. Prerequisite: COM. 200. *Fall.*

216. Advanced Writing for Radio and Television. (5-0-5)

Theory and practice in the fundamentals of gathering and writing news for broadcast. Continuation of COM 215 with emphasis on more complex types of reporting. Prerequisite: COM 215. *Winter.*

240. Photo-Journalism. (5-0-5)

Course includes instruction in taking, developing and printing pictures for news purposes. Student must have 35mm camera. *Spring.*

245. Radio and Television Production. (5-0-5)

Introduction to television and radio station equipment and pre-production elements necessary to produce a television show. Prerequisite: COM 215. *Fall.*

310. Advanced Reporting. (5-0-5)

Instruction and practice in reporting all areas of public affairs. Includes ethics of journalism, law of libel, right of privacy, fair comment and criticism, privileged matter, etc. Prerequisite: COM 200. *Spring.*

311. Feature Writing. (5-0-5)

Designed to further develop a student's skill in researching, organizing, and writing news features and human interest stories. Prerequisite: COM 200. *Spring, alternate years.*

312. Public Relations Practices. (5-0-5)

Basic theory and application of media in the planning and developing of company, community, organizational, and institutional programs. Prerequisite: COM 200. *Spring.*

320. Copy Editing. (5-0-5)

Designed to give students training in the theory and practice of copy editing and headline writing. Simulated local news copy and wire service stories are used. Prerequisite: COM 200. *Spring.*

351. The Mass Media and Popular Culture. (3-0-3)

Investigation and evaluation of the mass media and popular arts and their societal impact. *Winter.*

353. Advanced Radio Production. (5-0-5)

Advanced instruction and practice in radio production, including directing, programming and equipment. Prerequisite: COM 245. *Spring.*

354. Advanced Television Production. (5-0-5)

Advanced instruction and practice in television production, including directing, programming, and equipment. Prerequisite: COM. 245. *Winter.*

356. Media Art. (3-0-3)

Study and practice in basic design skills related to graphic and photographic formats for television, film, and slide productions. *Winter, alternate years.*

357. Newspaper Production. (2-4-5)

Copy editing, headline writing and newspaper layout. Emphasis upon the principles and skills involved in producing a newspaper by the off-set or coldtype method. (prior approval of instructor).

360. Publicatoin's Preparation and Production. (5-0-5)

Directed individual work in the preparation and production of copy from newspapers, magazines, brochures, booklets, catalogs, flyers and other printed peices. Involves writing, editing, photography, typography, basic layout, final design and reproduction.

361. The Black Press. (5-0-5)

The course provides an historical and analytical survey of the Black press in America. *Spring.*

375. Communications Law. (5-0-5)

Study of the laws affecting American media, including the concept of freedom of speech and press, federal regulatory agencies, libel, slander, copyright and invasion of privacy. *Spring.*

380. Media Management. (5-0-5)

Analyzes the functions and responsibilities of the various non-news department managers in television and radio stations, and newspapers, with emphasis on the market coverage of the media, profitability, overall programming, and budget; analysis of department administration and operation, and relations with regulatory agencies such as the FCC and NAB codes and standards. *Fall*.

450. Independent Study. (5-0-5)

Directed individual work under the various members of the faculty.

451. Language and Persuasion. (5-0-5)

Principles and practices of classical, tribal African, 18th Century American, and contemporary Black rhetoric, including language of politics, religion, and other significant modes. *Winter, alternate years*.

460. The School Press. (5-0-5)

Emphasis upon college and high school publications with opportunities for professional evaluation and guidance. *Summer*.

462. The Documentary. (3-0-3)

A survey and analysis of the documentary format employed in film productions, 1945-1970's preparation and production of mini-documentary. Prerequisites: COM 216, COM 354. *Spring*.

463. Seminar/Organizational Communication. (5-0-5)

Indepth analysis of a specific organization (such as an institution, educational facility, business, etc.) including a study of the communication flow. Prerequisite: COM 200.

470. Speech for Radio and Television. (3-0-3)

The course is designed to teach the basic techniques of radio and television broadcasting. Emphasis on newscasting, advertising, sportcasting, and announcing formats. *Fall*.

471. Sound Mixing and Recording. (0-6-3)

A laboratory study of the technique of sound mixing and the principles of audiotape recording and editing.

491. On-Campus Media Internship. (2-8-5)

Student will intern with an on-campus agency involved in the medium of the student's concentration. Prerequisite: COM 200 and permission of instructor.

492. Professional Media Internship. (0-10-5)

Open only to juniors and seniors majoring in mass communications; work with various professional media in the Savannah Area. Prerequisite: COM 200 and 491, permission of instructor.

494. Art and Politics of Video and Film. (3-0-3)

Survey of the aesthetics and political elements of International Film produced during the 1950's-1970's.

495. Media Cooperative Program. (0-10-5)

Seniors are allowed to work full-time off campus (with college supervision) for a television or radio station, or in public relations, advertising, or with a newspaper. Total credit limited to 15 hours. Permission of instructor.

496. Technical Writing. (5-0-5)

Expository writing on technical subjects placing emphasis on writing formal and informal reports, resumes, letters and description of materials and equipment; special attention to developing, drafting, and presenting government grants and foundation requests. Specific course projects are determined after consultation with directors of programs requiring technical writing skills. Prerequisite: COM 310. *Winter.*

497. Modern and Contemporary Drama. (3-0-3)

Reading and discussing plays from the modern era. Study of production techniques.

498. Acting for Radio and Television. (5-0-5)

Study and practice in the fundamentals of radio and T.V. acting. Prerequisite: ENG 308. *Winter.*

COGNATE AREAS

Please refer to appropriate section of *Bulletin* for course descriptions.

BUSINESS ADMINISTRATION (BAD)

- BAD 331— Business and Economic Statistics I
- BAD 340— Principles of Marketing
- BAD 341— Marketing-Management
- BAD 360— Business Organizations and Management
- BAD 403— Advertising
- BAD 409— Administrative Practice and Internship
- BAD 410— Administrative Practice and Internship
- BAD 412— Personnel Management
- BAD 415— Marketing Research
- BAD 462— Human Relations in Organization

ECONOMICS (ECO)

- ECO 201— Principles of Macro-Economics
- ECO 202— Principles of Micro-Economics

ENGLISH (ENG)

- ENG 201— Principles of Speech
- ENG 202— Voice and Diction
- ENG 203— Oral Interpretation
- ENG 204— Advanced Composition
- ENG 210— Introduction to English Literature
- ENG 308— Elementary Acting
- ENG 332— Theatrical Criticism

ENG 333— Creative Writing
 ENG 406— Introduction to Drama
 ENG 411— Play Production
 ENG 412— Play Auditioning and Direction
 ENG 413— Advanced Speech

RECREATION AND PARKS ADMINISTRATION (PED)

PED 130— Body Mechanics
 PED 131— Body Mechanics
 PED 144— Beginner's Gymnastics
 PED 145— Intermediate Gymnastics
 PED 154— Modern Dance Techniques
 PED 155— Modern Dance Performance
 PED 156— Modern Dance Creation and Interpretation
 PED 159— Aerobic Dancing

SOCIAL AND BEHAVIORAL SCIENCES (SOS) (PCS)

PCS 380— Politics of the Cinema
 SOS 400— Research Methods

RELIGIOUS AND PHILOSOPHICAL STUDIES (RPS)

137. Basic Religious and Philosophical Thought. (2-0-2)

A special introductory course offered primarily for persons in a continuing education or similar status. Not open to minors within the area.

200. Introduction to Philosophy. (5-0-5)

The basic survey course of the field of philosophy. An attempt is made to introduce the student to logic, ethics, ontology, religion, etc., as a basis for additional study in philosophy. This course is required for minors.

201. Psychology of Religion. (3-0-3)

Explores the junction of religion in a person's life. Case studies are made and religious institutional visitations are required. This course is required for all minors.

202. Philosophy of Love. (3-0-3)

Studies the nature of love, using philosophical as well as psychological source materials.

203. Critical and Creative Thinking (2-0-2)

Techniques for improving critical and creative thinking.

303. Understanding Old Testament Religion. (5-0-5)

Literature and ethics of the Old Testament, as a history of the early Jewish people and as a background of Christianity. *Spring, alternate years.*

304. Understanding New Testament Religion. (3-0-3)

A study of the teachings of Jesus and the history of the early Christian church as revealed in the literature of the New Testament. *Winter, alternate years.*

305. Understanding Buddhism and Hinduism. (3-0-3)

Emphasis will be placed upon Theravada Buddhist philosophy, literature and monastic life in India, China, Tibet, and Japan. Hinduism will be viewed both as a major religion and as a relative to Buddhism. *Fall. alternate years.*

306. Introduction to Islam. (2-0-2)

Emphasizes the history and growth of Islam and its status in today's world.

307. Religion and The Black Experience in America. (3-0-3)

Explores the historic roles of religion in the life of Black Americans.

308. Literature of the Bible.

Surveys for appreciation purposes the various forms of literature in the Old and New Testaments and examines some of the effects this literature has had upon man's attempt to communicate ideas concerning his spiritual life.

309. Introduction to Christianity. (3-0-3)

Emphasizes the influence of the environment into which Christianity was born and the subsequent interplay between history and religion up to the present time.

310. Introduction to Judaism. (2-0-2)

The Jewish faith, its belief and practices, are carefully studied in this course. When taught by a visiting rabbi, the instructor is sponsored by the Jewish Chautauqua Society.

311. Introduction to Eastern Religions. (3-0-3)

Surveys the major tenets of Hinduism, Buddhism, and other major Eastern religions with emphasis upon the cultural and political influences of these religions, past and present.

401. Seminar in Medieval Philosophy and Religion. (3-0-3)

Advanced course. Special attention will be given the works of St. Thomas Aquinas and Maimonides. *Spring.*

402. Contemporary Thought in Religion and Philosophy. (3-0-3)

Research and discussion of various ideas on schools of thought related to contemporary social ethics. Different topics will be identified by the titles following the listing on the schedules. May be repeated for credit.

403. Individualized Study in Religion/Philosophy. (1-0-1 to 5-0-3)

The student selects a special topic, era, or person for concentrated, supervised research under the direction of the instructor. Limited to advanced students minoring in the area. Prior permission of the instructor is necessary.

THE FRENCH, GERMAN, AND SPANISH MINOR

The French, German and Spanish minors aims: (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

To realize these aims the Department offers instruction in French, German and Spanish. The French minor comprises French 241, 242, 243, 341, 342, 343. The German minor comprises German 251, 252, 253, 351, 352, 353. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

Twenty-five quarter hours are required for a minor in French, German or Spanish.

Study Abroad Program of the University System of Georgia allows for earning 15 or more hours in French or Spanish by summer study in France, Germany, Mexico, or Spain.

DESCRIPTIONS OF COURSES

FRENCH (FRE)

141-142-143. Elementary French. (4-2-5)

For students with no previous language study. Practice in hearing, speaking, reading and writing everyday French. To be taken in sequence. *All quarters.*

201-202-203. French Cultural Activities. (2-0-1)

Knowledge of culture to be refined through viewing and discussing films, slides, maps and charts; listening to recordings and learning songs, dances; participation in typical games, short lectures on art, history, customs; short drama production possible. Prerequisite: Present or previous enrollment in any French course.

241-242. Intermediate French. (5-0-5)

Intensive review of basic principles of the language; practice in speaking and writing based on textual reading. To be taken in sequence. Prerequisite: FRE 143.

243. Conversation and Composition. (5-0-5)

To accustom the student to understand, speak, and write conversational French. Prerequisite: FRE 242.

341-342. Survey of Literature. (3-0-3)

Study of literature from present to past, terminating with the chason de geste. Emphasis on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Prose, poetry and drama. Prerequisite: FRE 242.

343. French Civilization. (4-0-4)

Acquaintance of the student with principal contributions of France to Western Civilization. Prerequisite: FRE 242.

344. Oral Communication. (5-0-5)

Further development of ability to understand and speak French. Discussion of national and international topics from news media and French publications. Prerequisite: FRE 243.

345-346-347. Study in France. (5-0-5)

One summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities, including cultural tours. Prerequisite: FRE 243.

GERMAN (GER)

151-152-153. Elementary German. (4-2-5)

For students with no previous language study. Practice in hearing, speaking, reading, and writing everyday German. To be in sequence. *Fall, Winter, Spring.*

201-202-203. German Cultural Activities. (2-0-1)

Knowledge of culture to be refined through viewing and discussing films, slides, maps, charts; listening to recordings and learning songs, dances; participation in typical games or lectures on art, history, customs, short drama production possible. Prerequisite: Present or previous enrollment in any German course.

251-252. Intermediate German. (5-0-5)

Intensive review of basic principles of the language; practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: GER 153.

253. Conversation and Composition. (5-0-5)

To accustom the student to understand, speak, and write conversational German. Prerequisite: GER 252.

351-352. Survey of Literature. (3-0-3)

Study of literature from present to past. Prerequisite: GER 252.

353. German Civilization. (4-0-4)

Acquaintance of the student with principal contributions of German to Western Civilization. Prerequisite: GER 252.

354. Oral Communication. (5-0-5)

Further development of ability to understand and speak German. Discussion of national and international topics from news media and German publications. Prerequisite: GER 253.

355-356-357. Study in Germany. (5-0-5)

One summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities, including cultural tours. Prerequisite: GER 253.

SPANISH (SPA)

161-162-163. Elementary Spanish. (4-2-5)

For students with no previous language study. Practice in hearing, speaking, reading and writing everyday Spanish. To be taken in sequence. *All quarters.*

201-202-203. Spanish Cultural Activities. (2-0-1)

Knowledge of culture to be refined through viewing and discussing films, slides, maps, charts; listening to recordings and learning songs, dances; participation in typical games; short lectures on art, history, customs; short drama production possible. Prerequisite: Present or previous enrollment in any Spanish course.

261-262. Intermediate Spanish. (5-0-5)

Intensive review of basic principles of the language; practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: SPA 163.

263. Conversation and Composition. (5-0-5)

To accustom the student to understand, speak, and write conversational Spanish. Prerequisite: SPA 262.

265-266. Spanish For Community Workers and Law Enforcement Officers. (3-1-3)

Objective is development of basic comprehension and speaking ability stressing expressions used in typical situations with Latin-Americans in U.S. cities, and enhancement of student's performance potential on future job assignments. Supported by reading and writing.

361-362. Survey of Literature. (3-0-3)

Introduction to some of the principal authors, works, and ideas in the literature of Spanish-speaking countries. Prerequisite: SPA 262.

363. Spanish Civilization. (4-0-4)

To acquaint the student with the principal contributions of Spain to Western civilization. Prerequisite: SPA 262.

364. Oral Communication. (5-0-5)

Further development of ability to understand and speak Spanish. Discussions of national and international topics from news media and Spanish magazines. Prerequisite: SPA 263.

365-366-367. Study Abroad. (5-0-5)

One summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities including cultural tours. Prerequisite: SPA 263.

DEPARTMENT OF RECREATION

Loris Boyd
Frank Ellis
John Myles

Kenneth Taylor
Saralyn Truedell
Richard Washington

Angela Chisolm, Secretary

The Department of Recreation has as its major function the preparation of students for professional careers in leadership, supervision, administration, and planning in recreation, park, and leisure service. It also provides the service program for college required physical education.

A Major in Recreation and Park Administration, with two options, is offered. The options are Recreation Programming and Administration and Recreation for Special Populations.

The Department offers a minor in Recreation and Park Administration.

PHYSICAL EDUCATION REQUIREMENTS

During the freshman and sophomore years all students (except veterans and those over 25 years of age) are required to complete six hours of physical education and/or health. The satisfactory completion of this work is a prerequisite for graduation. Students with handicapping conditions are encouraged to consult with the coordinator of the area for the development of an individualized program based on their needs. Students taking physical education classes must wear the regulation Savannah State College physical education uniform.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Recreation is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).
2. Senior Recreation and Park Administration majors are required to take a major comprehensive examination.

CURRICULA FOR MAJORS IN RECREATION AND PARK ADMINISTRATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: (All Options)

Area I—Humanities: 20 hours

English 107, 108, 109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours

MAT 107, 200, 201	10 hours
Ten-hour laboratory sequence from the listed courses:	
Chemistry 101-102	
Biology 123-124	10 hours

Area III—Social Sciences: 20 hours

History 102, 200	10 hours
Political Science 200	5 hours
Social Science 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours

Sociology 201	5 hours
Communications 110	3 hours
English 201	3 hours
Mathematics 210	5 hours
Recreation 101, 209, 211	14 hours

Additional Requirements: 8 hours

Physical Education	6 hours
General Education 101	2 hours

SENIOR CURRICULUM:**Requirements for All Options: 49 hours**

Recreation 220, 325, 330, 331, 341, 435, 440, 480	49 hours
English 413	5 hours

OPTION I—CONCENTRATION IN RECREATION PROGRAMMING AND ADMINISTRATION**Requirements: 50 hours**

Political Science 392, 410	
Criminal Justice 301	10 hours
Art 238	
Music 409	
English 406, 411	15 hours
Anthropology 301	
Psychology 303	
Social Work 309	10 hours
Electives (restricted to major courses)	10 hours

OPTION II—RECREATION FOR SPECIAL POPULATIONS**Requirements: 50 hours**

Recreation 365, 431, 461	10 hours
Political Science 392, 410	
Criminal Justice 301	10 hours
Art 238, 322, 333	
Music 200	
English 406, 411, 416	
Industrial Arts Education 110	10 hours
Anthropology 301	
Psychology 426	
Social Work 309, 410	10 hours
Electives	5 hours

MINOR IN RECREATION AND PARK ADMINISTRATION

REC 209	5 hours
REC 211	5 hours
REC 325	5 hours
REC 331	5 hours
REC 341	1 hours
REC 435	<u>5 hours</u>
	29 hours

COURSES THAT WILL SATISFY PHYSICAL EDUCATION REQUIREMENTS

PHYSICAL EDUCATION (PED)

110. Concepts in Physical Education. (1-2-2)*All Quarters.***114. Tennis Techniques. (0-2-1)***All Quarters.***115. Advanced Beginner's Tennis. (0-2-1)***Winter & Spring.***116. Intermediate Tennis. (0-2-1)***Spring.***117. Archery Techniques & Skills. (0-2-1)***All Quarters.***122. Volleyball Techniques. (0-2-1)***All Quarters.***123. Softball Techniques. (0-2-1)***Spring.***124. Weight Training. (0-2-1)***Fall.***125. Weight Training. (0-2-1)***Winter.***126. Weight Training. (0-2-1)***Spring.***127. Badminton Techniques. (0-2-1)***All Quarters.***130. Body Mechanics. (1-2-2)***All Quarters.***131. Body Mechanics. (1-2-2)***All Quarters.*

134. Physical Conditioning. (1-2-2)*Fall.***135. Physical Conditioning. (1-2-2)***Winter.***136. Physical Conditioning. (1-2-2)***Spring.***137. Recreational Activities. (0-2-1)***All Quarters.***139. Tumbling Techniques. (0-2-1)***All Quarters.***142. Folk & Square Dance (0-2-1)***All Quarters.***143. Social & Ballroom Dance. (0-2-1)***All Quarters.***150. Soccer Techniques. (0-2-1)***Fall.***154. Modern Dance Techniques. (0-2-1)***All Quarters.***155. Modern Dance Performance. (0-2-1)***Winter & Spring.***156. Modern Dance Creation & Interpretation. (0-2-1)***Spring.***159. Aerobic Dancing. (0-2-1)***All Quarters.***164. Beginner's Swimming. (0-2-1)***All Quarters.***165. Advanced Beginner's Swimming. (0-2-1)***All Quarters.***166. Intermediate Swimming. (0-2-1)***All Quarters.***175. Swimming for Physical Fitness. (4-1-3)**

Designed to introduce the student to techniques for improving his physical fitness through the use of swimming and aquatic activities. Prerequisites: Ability to swim as determined by the swimming instructor.

HEALTH (HED)**105. Concepts in Health. (3-0-3)***All Quarters.*

145. Wellness (3-0-3)

Designed to facilitate improvements in the students lifestyle.

105. *All Quarters.*

165. Human Sexuality. (0-3-3)

Designed to introduce the student to some of the many factors that influence human sexual behavior and some common sexual lifestyle options.

170. The Physical Fitness Component of Wellness. (2-2-3)

Designed to introduce the student to the role of physical fitness in a wellness lifestyle. It will also involve the students in ways of developing this component.

200. First Aid and Safety. (3-0-3)

All Quarters.

201. Safety Education. (2-0-2)

All Quarters.

221. Physical Activity and Stress Management. (2-2-3)

Designed to explore the nature of human stress and to examine some physical methods of reducing the stress response.

222. Physical Activity, Nutrition, and Weight Control. (2-2-3)

Designed to promote weight control through an understanding of nutrition and physical activity and their roles in its maintenance.

ELECTIVE COURSES PHYSICAL EDUCATION (PED)

224. Principles of Officiating. (3-0-3)

Theory & Philosophy of officiating. *All Quarters.*

225. Officiating Volleyball, Tennis, & Badminton. (3-0-3)

Prerequisite: PED 224. *Winter Quarter.*

226. Officiating Football. (3-0-3)

Prerequisite: PED 224. *Fall & Winter.*

227. Officiating Basketball. (3-0-3)

Prerequisite: PED 224. *Fall & Winter.*

228. Officiating Baseball. (3-0-3)

Prerequisite: PED 224. *Winter & Spring.*

255. Physical Fitness Programming. (2-2-3)

This course deals with all phases of the physical fitness program, including developing programs, administering physical fitness tests, conducting the program, and evaluating the program. *All Quarters.*

265. Methods in Swimming. (0-3-2)

Methods of instructing individuals, small and large groups in swimming techniques. Prerequisite: PED 166 or pass swimming Proficiency test. *All Quarters.*

RECREATION COURSES (REC)

101. Recreation in Modern Society. (3-4-5)

The role of recreation, parks, and sports in human experiences and in the structure of the community.

205. Care and Prevention of Athletic Injuries. (3-0-3)

Introduction to the basic historical and philosophical foundations of leisure and recreation.

211. Recreation Activity Leadership. (5-0-5)

Methods and techniques of individual and group leadership in recreation activities.

220. Areas and Facilities. (5-0-5)

Design concepts and principles applied to planning and development of recreation areas and facilities.

228. Theatre Dance. (2-2-2)

Designed to expose the dancer to the dynamic style pieces used in musical theatre choreography. Prerequisite: PED 156 or permission of the dance instructor.

229. Afro-Carribean Dance. (2-1-2)

Designed to focus on skills and folklore of Afro-Carribean dance style. Prerequisite: PED 156 or permission of the dance instructor.

315. Camping and Outdoor Recreation. (5-0-5)

Selected organizational and administrative aspects of organized camping and outdoor recreation.

325. Recreation Program Development. (3-4-5)

Principles of recreation program development; study of recreation program areas available to participants; and analysis of methods of program design. Prerequisite: REC 101.

330. Recreation Field Work. (1-8-5)

Directed field experience in a recreation agency under the supervision of a faculty advisor and an agency supervisor. Prerequisite: REC 325.

331. Recreation and Special Populations. (3-4-5)

Study of history and development of recreation for special populations. Examination of various agencies providing programs and services for the elderly, handicapped, juvenile delinquents, and the imprisoned criminal. Prerequisite: REC 325.

341. Community Recreation. (2-4-4)

Examines recreation and leisure in the community; relationships of recreation agency to other community agencies; financial support for recreation; and organization and structure of community recreation agency. Prerequisite: REC 101.

345. Methods in Recreational Dance.

To introduce basic approaches to teaching folk, square, and social dance, with application to school and recreation dance programs. Prerequisite: PED 156 or permission of the instructor.

350. Dance Seminar. (1-3 cr. hrs.)

To guide the student through the interpretation, creation, and choreography of a dance presentation. Prerequisite: Member of the Savannah State College Dance Theatre or permission of the dance instructor.

365. Social Recreation. (3-4-5)

Development of basic understanding of group dynamics within the context of recreation goals and operational structure. Prerequisite: SWK 309.

410. Recreation and the Corrective Institutions. (3-4-5)

Study of recreation in corrective institutions with an intensive examination of present policies and procedures covering recreation programs in these settings. Prerequisite: REC 331.

431. Recreation Programming for Special Populations. (3-4-5)

Evaluation of recreation programs and services provided for special populations. Prerequisite: REC 331.

435. Recreation Organization and Administration. (3-4-5)

Organization and administration of recreation programs and parks in community settings; legal aspects; source of funds; types of programs; and public relations. Prerequisite: Senior standing and permission of instructor.

440. Evaluation in Recreation. (3-4-5)

Approaches to and uses of evaluation in recreation and parks, emphasizing assessment of leisure needs, programs, personnel, equipment, and facilities. Prerequisite: Senior standing and permission of instructor.

461. Community-Based Recreation for Special Populations. (2-6-5)

Examination of the organizational structure and functions of various community agencies providing recreation for special populations. Prerequisite: REC 431.

480. Recreation Internship. (0-30-15)

Internship in an approved agency under a professional recreator. Prerequisite: Senior standing and approval of Department Head.

**DEPARTMENT OF SOCIAL AND
BEHAVIORAL SCIENCES**

ANNETTE K. BROCK, Acting Head

Thomas H. Byers	John E. Simpson
Linnie Darden	Steven R. Smith
Lawrence Harris	Merolyn S. Gaulden
Gaye H. Hewitt	Hanes Walton, Jr.
Ja A. Jahannes	Daniel Washington
Willie Johnson	Eugene Welch
Ahmed Bem Piankhi	

Barbara A. McFall, Secretary

The Department of Social and Behavioral Sciences seeks to provide an understanding of the disciplines of Criminal Justice, History, Political Science, Psychology, and Urban Studies, as well as to provide for the development of scholarly attitudes, civic awareness, and an appreciation of human and cultural backgrounds and relationships. The department also seeks to involve faculty and students in activities that address the issues, concerns, problems, resources, and opportunities of urban and coastal communities.

The Department of Social and Behavioral Sciences offers four majors. The Bachelor of Arts degree is offered in History, Political Science, and Urban Studies. The Bachelor of Science degree is offered in Criminal Justice.

The department offers minor programs in Afro-American Studies, Criminal Justice, History, International Studies, Psychology, Political Science and Urban Studies.

MINORS IN SOCIAL AND BEHAVIORAL SCIENCES

The Division of Social Sciences offers the following minors:

<i>History</i>	Quarter Hours
HIS 351 or 352	5
HIS 331-332	10
HIS 353	4
Electives (HIS 308, 370, 380, 401, 408)	<u>10</u>
	29
<i>Urban Studies</i>	Quarter Hours
URB 301	5
URB/PSC 350	5
URB/PSC 392	5
URB/PSC 410	5
URB/ECO 404	<u>5</u>
	25
<i>Criminal Justice</i>	Quarter Hours
CRJ 200	5
CRJ 301	5
CRJ 303	5
CRJ 330	5
CRJ 401	5
CRJ 413	<u>4</u>
	29

<i>International Studies</i>	Quarter Hours
INS 205	4
PSC 498	5
INS 307	5
HIS 380	5
PSC 391 or HIS 410	5
Elective (HIS 370, 380; PSC 391, 498; or ECO 405)	<u>5</u>
	29

<i>Afro-American Studies</i>	Quarter Hours
The student will select 29 hours from the following:	
HIS 308	5
HIS 312	5
HIS 411	5
ECO 404	5
MUS 210	3
ENG 315	3
ENG 317	3
SOC 460	5

<i>Psychology</i>	Quarter Hours
PSY 301	4
PSY 302	5
Psychology Electives	<u>20</u>
	29

Students who minor in Psychology are required to take 29 hours in Psychology above the 200 level and are required to take PSY 301 and PSY 302. Students may select electives from other Psychology courses above the 300 level.

<i>Political Science</i>	Quarter Hours
PSC 200	5
PSC 303	5
PSC 304	5
PSC 310	5
PSC 403	5
PSC 405	<u>4</u>
	29

HISTORY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
Mathematics 107, 108, or 109	5 hours

Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours
Area III—Social Sciences: 20 hours required	
History 101-102	10 hours
Political Science 200	5 hours
Psychology 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
History 202-203	10 hours
Social Science 111	5 hours
Economics 200	5 hours
A sequence from the following:	
Elementary French 141-142	
Elementary German 151-152	
Elementary Spanish 161-162	10 hours
Additional Requirements:	
Physical Education	6 hours
General Education 101	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 93 quarter hours	
Major Requirements: 49 hours as specified	
History 301, 308, 331, 332, 351 or 352, 353, 370 or 380, 401 or 411, 413 or 414, SOC 201	49 hours
Minor Requirements	29 hours
General Elective	15 hours

**COMPREHENSIVE EXAMINATION
FOR HISTORY MAJORS**

Senior history majors are required to take the Advanced Test in History of the Graduate Record Examination (GRE) as the comprehensive examination in their field.

CRIMINAL JUSTICE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours	
Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required Mathematics 107, 108, or 110	
	5 hours

Ten-hour laboratory sequence from the following:

Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III—Social Sciences: 20 hours required

History 101-102	10 hours
Political Science 200	5 hours
Psychology 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

History 202-203	10 hours
Sociology 201	5 hours
Social Science 111	5 hours
Criminal Justice 200-201	10 hours

Additional Requirements

Physical Education	6 hours
General Education 101	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 94 quarter hours

Major Requirements: 50 hours as specified

Criminal Justice 300-301-303-330-332-401-403-405-407-413	
SOC 290	50 hours

Minor Requirements 29 hours

Recommended Electives:

Three of the following:	
Criminal Justice 395-408-410-460	15 hours

COMPREHENSIVE EXAMINATION FOR CRIMINAL JUSTICE MAJORS

Senior criminal justice majors are required to take an institutional comprehensive exit examination in their field and are urged to take the aptitude section of the Graduate Record Examination.

POLITICAL SCIENCE CURRICULUM:

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, or 109	5 hours
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Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Physical Science 203	5 hours

Area III—Social Sciences: 20 hours required	
History 101-102	10 hours
Political Science 200	5 hours
Psychology 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required	
History 202-203	10 hours
Foreign Languages	10 hours
FRE 141-142	
GER 151-152	
SPA 161-162	
Mathematics 200-201	5 hours
SOS 111	5 hours

Additional Requirements	
Physical Education	6 hours
General Education 101	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 94 quarter hours	
Major Requirements: 55 hours as specified	
Mathematics 217	5 hours
Political Science 303-304-310-311-390-391-392-403-405-499	50 hours
Minor Requirements	29 hours
General Electives	10 hours

**COMPREHENSIVE EXAMINATION FOR
POLITICAL SCIENCE MAJORS**

Senior political science majors are required to take the Advanced Test in Political Science of the Graduate Record Examination (GRE) as the comprehensive exit examination in their field.

Social and Behavioral Sciences core courses required of all students.

URBAN STUDIES CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours	
Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required	
Mathematics 107-200-201	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Area III—Social Sciences: 20 hours required	
HIS 101-102	10 hours
HIS 202 or 203	5 hours
PSC 200	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
CRJ 200	5 hours
ECO 200	5 hours
ENG 204 or BAD 225	5 hours
PSY 201	5 hours
SOC 201	5 hours
SOS 200	5 hours
Additional Requirements:	
Physical Education	6 hours
General Education	2 hours

CURRICULUM FOR MAJOR IN URBAN STUDIES

Major Requirements: 40 hours

- URB 301, 395 (396-397), 495
- ECO 404
- PSC 350 or 410, 392
- HIS 325
- SOS 300

Area of Concentration: 20 hours

Mass Communications, Criminal Justice, Psychology, Gerontology, Political Science, Sociology, Social Work, Recreation and Parks Administration, or Interdisciplinary courses to be approved by Advisor.

Minor Requirements: 25-29 hours

DESCRIPTION OF COURSES

SOCIAL SCIENCES

108. History and Theory of Debate. (3-0-3)

Designed to familiarize the student with the evolution, theories, and value of persuasive argumentation as an art. Elective, Prerequisite: Consent of instructor.

111. World of Human Geography. (5-0-5)

A study of man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation and communication, conservation of natural resources.

200. Social Statistics. (5-0-5)

An introduction to statistical methods relevant to the social and behavioral sciences. Measures of central tendency and dispersion; probability distributions; inferences concerning means; standard deviations and proportions; the t distributions; the one-way and two-way analysis of variances; the chi-square test; correlation and regression.

260. Problem Solving and Analytical Reasoning. (3-4-5)

This course is designed to increase student's ability to and the habit of, thinking more critically about information that is available to them. Focusing on sequential thinking as the heart of good problem-solving techniques, the course will utilize examples of the techniques used by good problem solvers as it involves students actively in developing and perfecting such patterns of systematic sequential thinking of their own.

290. Individual Appraisal in the Social Sciences. (1-0-1)

Designed to help students improve their test-taking skills and their performance on standardized tests. Open to all students. This course is required of social science majors but may serve as an elective for majors in other areas.

HISTORY (HIS)

101. History of World Civilizations. (5-0-5)

A survey of the major civilizations of the world from the earliest time to about 1500.

102. History of World Civilizations. (5-0-5)

A survey of the major civilizations of the world from about 1500 to the present; continuation of HIS 101.

103. The World Since 1918. (2-0-2)

A study of the contemporary world since World War I with emphasis on political, cultural, and intellectual developments and international relations.

201. History of American Military Affairs. (5-0-5)

This course is an introductory survey of military affairs in the United States from the Revolution to the present. Its major purpose is to acquaint the student with the American military experience, to emphasize the problems involved in waging war, and to examine the effects of waging war on the society that wages it.

202. History of the United States to the Civil War. (5-0-5)

An introductory survey of the formative years of the history of the United States.

203. History of the United States Since the Civil War. (5-0-5)

A survey of Afro-American and American History from the Civil War to the present.

301. Historical Research. (5-0-5)

Analysis of the sources, and critical methods in evaluating, organizing and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. Prerequisites: HIS 202-203-331-332-353.

308. Afro-American History. (5-0-5)

A survey of the history of Afro-Americans beginning with the African background and continuing to the present.

312. The Afro-American in the 20th Century. (5-0-5)

Major emphasis is placed on the modern Afro-American experiences such as Afro-American participation in the World Wars, the Depression, and the struggles for civil rights, identity, and self-determination.

325. Urban History. (5-0-5)

A study of the development and transformation of cities and urban populations; ancient, early modern and modern cities will be included.

331. History of Early Modern Europe. (3-0-5)

History of Europe from about 1500 until the French revolution, covering the Reformation, Scientific Revolution, absolutism, family and demographic developments, and the Enlightenment. Lectures and assigned readings.

332. History of Modern Europe. (5-0-5)

A detailed study of the political, social, economic, and intellectual developments in Europe since 1789. Emphasis is on western Europe. Lectures, assigned readings, research papers.

351. American Revolution and New Nation. (5-0-5)

An examination and analysis of the formative forces in American life during the period from the 1750's through the launching of a new system of national government under the constitution of 1787.

352. American Civil War and Reconstruction. (5-0-5)

An intensive examination and analysis of the forces at work in American life during the crucial period from 1840 through 1877.

353. Recent American History. (4-0-4)

An intensive study of the political, social, and economic history of the United States from the First World War to the present.

370. The History of Latin America. (5-0-5)

An appraisal from both an historical viewpoint of the political, intellectual, social and economic development of Latin America and its relations with the United States. Prerequisite: HIS 202, 203.

380. History of the Far East. (5-0-5)

An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. Prerequisites: HIS 202-203-331-332.

395-396-397. Internship. (Varies)

An individually designed course-project involving off campus study and research in a government or private agency, during which the student will be under the joint supervision of the sponsoring agency and his faculty advisor. To be arranged by faculty advisor and department chairman.

401. Social and Intellectual History of the United States. (5-0-5)

An examination of the principal social and intellectual trends since the Jacksonian era with the purpose of increasing the student's awareness of the social and intellectual forces at work in contemporary America and their historical precedents.

402. Individual Study and Independent Research.

This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. *3 to 5 credit hours*. Students must register for course.

408. History of Russia Since 1815.

An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. Prerequisites: HIS 331-332.

411. History of African and Afro-American Thought. (5-0-5)

This course is designed to deal primarily with the ideas, institutional practices, values, and ideologies embraced by Africans and Afro-Americans historically and contemporaneously. It incorporates the philosophy and tactics of accommodation, integration, and separation.

413. History of England to 1688. (5-0-5)

A study of the political, social, economic, and intellectual movements in England. Emphasis on constitutional developments in the medieval period and during the early modern era.

414. History of England Since 1688. (5-0-5)

A study of the political, social, economic, and intellectual movements in England since the Glorious Revolution. Emphasis is given to those factors which enabled Britain to rise to a position as a world power and the decline of British influence in the twentieth century.

460. Seminar on the Black Experience. (5-0-5)

Study of historical and current trends in selected historical frames of reference of experiences encountered by black people in the United States and other regions of the world.

CRIMINAL JUSTICE (CRJ)

200. Introduction to Criminal Justice. (5-0-5)

This course deals with the philosophical background to criminal justice, a brief history of criminal justice, the constitutional limitations of criminal justice, the agencies involved in criminal justice, the processes of criminal justice, and evaluating criminal justice today.

201. Law Enforcement. (5-0-5)

This course involves the detailed study of basic police operations, the policeman's role in law enforcement. Special topics include the police career, criminology for policemen, preserving order and keeping the peace, arrest procedures, search and seizure, traffic control, mob control, picketing and riots.

CRJ/SOS 290. Individual Appraisal in the Social Sciences. (1-0-1)

Designed to help students improve their test-taking skills and their performance on standardized tests.

300. Judicial Process. (5-0-5)

This is presently a five credit required course, which deals specifically with the various state, federal, and military courts. It will discuss their jurisdiction, limitations, and operational problems. The role of the judge, prosecutor, defense, and clerk of the court will be examined, as well as basic trial procedure comparing civil and criminal cases will be discussed.

301. Juvenile Delinquency.

This course studies both the legal and social character of juvenile delinquency. Special topics include the policeman's role in the delinquency problem, juvenile deviants and social definitions and behavior, the family and delinquency, middleclass delinquency, interacting factors in delinquency, gangs, crime, courts, and the Gault decision. Prerequisite: CRJ 200.

303. Constitutional Law. (5-0-5)

This course will examine in detail those articles and constitutional amendments which deal exclusively and specifically with police powers and implied law enforcement operational activities. Prerequisite: CRJ 200.

305. Judicial Process I. (3-0-3)

This is presently a five credit required course, to be divided into a three credit course which will deal specifically with the various state, federal, and military courts. It will discuss their jurisdiction, limitations, and operational problems, also to include the county, municipal, and juvenile court systems as they exist today.

306. Judicial Process II. (2-0-2)

This recommended two credit course will deal with the duties of the various court officers, their specific duties, responsibilities, required training and background experience, and various types of certification and means by which they hold their offices. The role of the judge, prosecutor, defense, and clerk of the court will be examined, as well as basic trial procedure comparing civil and criminal cases will be discussed.

Students majoring in criminal justice will still be required to satisfactorily pass both parts of the judicial process case.

309. Research Methods in Criminal Justice. (5-0-5)

This practical course allows students the opportunity to utilize various operational research methods to conduct surveys, develop concepts, find applicable law and brief cases for examination and policy and procedure development.

320. Residential and Industrial Security. (3-0-3)

This course will examine methods to insure residential and industrial security and describe methods utilized by criminal elements to commit theft of property in industry and the community.

325. Correctional Counseling. (3-0-3)

This course is designed to assist the criminal justice major considering inmate counseling or correction officer duties as a career. It will cover the whole concept of educational counseling with inmates and assisting them in their successful rehabilitational efforts. The typical prisoners' problems will be discussed as case studies and practical situations as they exist in prisons will be analyzed and resolved as case studies and with legal application.

326. Inmates Rights. (2-0-2)

This course outlines the duties and responsibilities of Correctional Officers in dealing with inmates within the prison system. Subjects covered will be the status of both Pretrial and Convicted Offenders. Prisoners' Rights, Loss of Rights and Legal Remedies available under the Laws and Case Judgements.

330. Basic Criminal Procedure. (5-0-5)

An examination of the role of the courts and law enforcement agency in the criminal justice process. Special topics include arrest, search and seizure, wire tapping, electronic eavesdropping, the use of secret agents, entrapment, police interrogations and confessions, the exclusionary rules, police lineups and other pretrial identification procedures. Prerequisite: CRJ 200.

332. Police Community Relations (5-0-5)

The role of law enforcement agencies in the community with special references to ethnic, social and financial problems as well as solutions to basic conflicts in minority police relationships. Prerequisite: CRJ 200.

375. Communications Law. (5-0-5)

Study of the laws affecting American media, including the concept of freedom of speech and press, federal regulatory agencies, libel, slander, copyright and invasion of privacy.

395-396-397. Internship. (0-0-5)

Work and study experience in one of the specialized career fields of criminal justice. Prerequisite: Junior or Senior standing and consent of instructor.

400. Individual Study and Independent Research. (Varies)

This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. Students must obtain instructor's prior approval.

401. Criminal Law I. (5-0-5)

Studies the nature, sources and types of criminal law. The classification and analysis of crimes in general and the examination of specific offenses. Special topics include: homicide, murder, rape, larceny, robbery, and arson. Prerequisite: CRJ 200.

403. Corrections, Probation, and Parole. (5-0-5)

This course studies and overviews the principles, institutions and practices of corrections, probation and parole systems. Special topics include: analysis and evaluation of historical and contemporary correctional systems, the development organization and results of different systems. Prerequisite: CRJ 200.

405. Seminar in Criminal Justice. (5-0-5)

This course analyzes the legal policy and operational procedures to be followed in investigating and resolving various specialized situations of crime and criminal behavior. Modern police practices, community-police relationships, law enforcement facilities, training, recruiting and utilization of men and equipment are discussed. Special topics include the use of police dogs and helicopters. Current and future problems faced in all phases of the law enforcement field form the basis for much of the assigned seminar discussion topics. Open to Senior Criminal Justice students only.

407. Evidence in Law Enforcement. (5-0-5)

This course deals with the rules of evidence and their value in police and law enforcement operations. Special topics include classification of evidence, recognition of evidence, utilization of evidence, investigative leads and courtroom presentations, the hearsay rule and its exceptions, best evidence rule, impeachment and cross examination, governmental privileges and scientific and demonstrate evidence. Prerequisite: CRJ 200.

408. Law and Society. (5-0-5)

This course will develop the historical and philosophical development of law and its relationship to society. Such issues as personal privacy, civil disobedience and regulation of moral behavior will be discussed. Prerequisite: CRJ 200.

410. Civil Liberties. (5-0-5)

Examination of civil rights in the light of possible violation of both criminal and civil statutes. Federal and state cases in the civil rights field will be studied. Strong emphasis will be placed on a clear understanding of current judicial interpretation in this field. Prerequisite: CRJ 200.

413. Investigations I. (4-0-4)

This course will deal with investigations from an operational viewpoint discussing methods and techniques, equipment and facilities, the various agencies and their responsibilities within the federal and state law enforcement program. Technical and scientific crime fighting will be studied and a general overall concept of law enforcement from a crime prevention application will be examined.

423. Criminology for CRJ Majors. (5-0-5)

This course will deal with the law, policies and procedures which will affect the investigating officer. The course studies those policies and procedures based on recent legislative and judicial decisions with which an investigator must be knowledgeable and examines the principle which he must apply in his assigned task of criminal investigation.

413. Investigations I. (2-0-2)

The course will deal with investigations from an operational viewpoint discussing methods and techniques, equipment and facilities, the various agencies and their responsibilities within the federal and state law enforcement program. Technical and scientific crime fighting will be studied and a general overall concept of law enforcement from a crime prevention application will be examined.

414. Investigations II. (2-0-2)

This course will deal with the law, policies and procedures which will affect the investigating officer. The course studies those policies and procedures based on recent legislative and judicial decisions with which an investigator must be knowledgeable and examines the principles which he must apply in his assigned task of criminal investigations.

Students majoring in criminal justice will still be required to satisfactorily pass both parts of the investigations course.

460. Seminar on the Black Experience. (5-0-5)

An interdisciplinary seminar designed to increase students awareness of the concerns, roles, and contributions of Afro-Americans in the Social Sciences, especially in the field of criminal justice.

POLITICAL SCIENCE (PSC)

200. Government. (5-0-5)

Provides a general understanding of the concepts, functions, and operations of government (international, national, state and local), and basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs.

201. National Security Policy. (5-0-5)

Deals with the formulation and implementation of American security policy. American military history is analyzed briefly to determine the factors bearing on the development of the defense structure of the United States. The method formulation of national security policy is studied, as is the role of each governmental component concerned with security affairs. The elements of national power are reviewed.

303. International Politics. (5-0-5)

It is a survey study of the basic factors which motivate international relations, including power, politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. Prerequisite: PSC 200 or consent of instructor.

304. Comparative Government and Politics. (5-0-5)

This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 303 or special permission.

310. State Government. (5-0-5)

A survey of the nature, organization, and problems of the state and local government and administration in the United States.

311. American Constitutional Law. (5-0-5)

The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. Prerequisite: PSC 200.

330. The Politics of the Cinema. (3-0-3)

This course will survey the treatment of politics and the political process through films.

350. Public Policy. (5-0-5)

This is a survey course which deals with the ways in which public policy is formulated, adopted, implemented and adjudicated as well as the various techniques that have been developed to study it.

375. American Presidency. (5-0-5)

An analysis of the American Presidency, the men who serve in the office, the theories regarding the presidency, and the type of men who gain the office.

390. Black Politics. (5-0-5)

This course is designed primarily to deal with the Black man in the American political arena. It deals with Blacks as actors in the political system rather than being acted upon. Such topics as Black Political Parties, Black Pressure Groups, the Black Electorate, Black Public Officials, and Public Policy will be discussed.

391. African Government and Politics. (5-0-5)

The purpose of this course is to discuss the government of Black African states—Africa south of the Sahara. It will deal with the effects of colonialism, neocolonialism, and nationalism upon contemporary political institutions in each African state.

392. Urban Government. (5-0-5)

Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and population will all be discussed in connection with the continual urbanization of a society.

395-396-397. Internship. (Varies)

The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. Credit must be arranged by faculty advisor and department chairman.

400. Voting Behavior. (5-0-5)

An analysis of the literature on voting behavior, political participation, and political behavior with emphasis on the problems and prospects and methods of studying voting.

401. Individual Study and Independent Research.

This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. *3-5 credit hours*. Students must register for course.

403. Political Theory. (5-0-5)

This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the Middle Ages, Machiavelli and the rise of the modern state. Prerequisite: HIS 101, 102 or special permission.

404. Political Theory. (5-0-5)

A continuation of PSC 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. Prerequisite: PSC 403.

405. The American Political Process. (4-0-4)

This is an inquiry into the functioning of the American political system, and the theories behind it. Stress is placed on federalism, political parties, and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 200 or special permission.

409. American Political Thought. (5-0-5)

The purpose of this course is to discuss the nature, scope, and significance of American political ideas and thinkers. It will begin with the ideas of the revolutionary leaders and move to the political thoughts of the radical right, new left, and the Black Revolution.

410. Public Administration. (5-0-5)

Students in this course will be acquainted with the nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff will also be brought to light.

418. Government and Politics of Southeast Asia. (5-0-5)

This course will focus upon the governments of Southeast Asia and analyze the impact that colonialism, nationalism and communism have had upon them. The present foreign policy of each country will be discussed as well as its relationships to the SEATO organization.

419. Jurisprudence. (5-0-5)

This course will focus primarily upon the philosophy of the law and it will cover each school of jurisprudence (from historical to sociological jurisprudence) and relate these to a large context of man and his civil liberties.

425. Politics of Transportation. (5-0-5)

A study of the changing patterns of transportation in America and the effect of federal, state, and local governments on transportation with emphasis on methods of public control of transportation systems.

450. Political Parties. (5-0-5)

The focus of this course is upon the evolution, nature, and role of American political parties. The course will deal with each of the major party system as well as with theories about party organizations.

490. Honor's Seminar in Political Science. (1-0-1)

An opportunity for selected students in political science to explore through reading and research some of the issues, problems, and prospects in the discipline.

498. American Foreign Policy. (5-0-5)

This course will focus upon the origin, nature, and consequences of American foreign policies. Moreover, the role and impact of the Presidency, public opinion, Congress, and outcome will also be included.

499. Research in Political Science. (5-0-5)

This course is to acquaint the student with the nature of inquiry as well as the dimensions and approaches to Political Science. The historical, analytical, comparative, descriptive, legalistic, behavioral and mathematical application to man's political behavior will be discussed.

ANTHROPOLOGY (ANT)**201. Cultural Anthropology. (5-0-5)**

Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture.

PSYCHOLOGY (PSY)**201. General Psychology. (5-0-5)**

An introduction to the science which studies the behavior and experiences of living organisms and specifically, human behavior and experiences. *Fall, Winter.*

301. Advanced General Psychology. (4-0-4)

Consideration of the principles significant in understanding and explaining human experiences and behavior with special emphasis placed on motivation and emotion, personality and individuality, social psychology, psychotherapy and other treatment methods, and an introduction to scientific methodology and its application to behavior analysis. Prerequisite: PSY 201.

302. History of Psychology. (5-0-5)

A description of the work of those psychologists who have made the most significant contributions to the development of the science, with emphasis on the various systems of psychology, research, and experimentation. Prerequisite: PSY 201.

303. Social Psychology (5-0-5)

A study of the individual and his social context, beginning with the study of the social behavior of animals and including human functioning in small groups, in societies, and in cross-cultural perspectives. Attitudes, motives, and social perception will be emphasized. Prerequisite: PSY 301.

310. Tests and Measurements. (5-0-5)

A beginning course in measurement which covers statistical methods, research designs and research problems. Students are provided experiences in the administration and evaluation of psychological tests. Prerequisite: PSY 201.

401. Theories of Personality. (5-0-5)

An exploration of the theoretical basis of personality with emphasis on structure, dynamics, personality, development, normal and deviant behavior, attitudes, beliefs, and opinions. Prerequisite: PSY 302.

402. Mental Health. (5-0-5)

Analysis of the concept of the healthy personality and mental functioning as responding constructively to stress rather than merely adapting or adjusting to stress.

403. Psychology of Black Experience. (5-0-5)

An overview of contemporary topics in the area of Black psychology, including self-concept, achievement and motivation. Black family, and others. Prerequisite: PSY 301, PSY 303.

404. Experimental Psychology. (5-0-5)

Study and analysis of the most basic classical and modern experiments in psychology and the principles of experimental psychology illustrated therein; laboratory experience in conducting and reporting basic types of psychological experiments.

415. Humanistic Psychology. (5-0-5)

The individual and his relationships are the focal points of study. Individual perception, personality, motivation and self-esteem become the bases for individual self-actualization in relationships with other individuals, organizations and society.

426. Abnormal Psychology. (5-0-5)

This course will systematically explore the body of theory and data relevant to the understanding of maladaptive human process. The varieties of abnormal experiences and behavior will be discussed and an overview of current approaches to the resolution of the psychopathology will be offered.

INTERNATIONAL STUDIES (INS)

205. Approaches to International Studies. (4-0-4)

An introductory course that discusses national decision-making, state problems, foreign policy interaction, alternative security positions, and an analysis of contemporary international relations.

INS 307/PSC 423. International Law. (5-0-5)

An introduction to public international law. The substantive coverage of the course includes peaceful settlement of disputes, international agreements in international and domestic law, and evolving law of the sea, human rights, and international attempts at controlling the use of armed forces.

INS/ECO 345. Economic Development. (5-0-5)

An introduction to the economic and social problems confronting developing nations in Africa, Asia, and Latin America. Variables which affect the growth processes are isolated and analyzed. Considerable attention is focused upon the interaction of economic, political, administrative, and social phenomena and their impact on overall development within the nations studied. Limited use of growth models is employed as an alternative method of analysis.

INS/ECO 405. International Economics. (5-0-5)

An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration.

URBAN STUDIES (URB)

ECO 404. Urban Economics. (5-0-5)

An analysis of urban growth centers and their concomitant problems utilizing the cost-benefit technique of evaluation. Location theory is used to delineate trends in urban growth patterns and activities. Specific urban problems arising from such growth trends as adequate revenue and tax base, human resource utilization, housing and land use, and urban poverty are discussed. Emphasis is placed upon solving such problems in terms of economic efficiency and equity.

HIS 325. Urban History. (5-0-5)

A study of the development and transformation of cities and urban populations. Ancient, early modern cities will be included.

PSC 350. Public Policy. (5-0-5)

A survey of the ways in which public policy is formulated, adopted, implemented and adjudicates as well as the various techniques used to study it.

PSC 392. Urban Government. (5-0-5)

Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and population will all be discussed in connection with the continual urbanization of a society.

PSC 410. Public Administration. (5-0-5)

Students in this course will be acquainted with nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff will also be brought to light.

URB 301. Introduction to Urban Planning and Development. (5-0-5)

Introduction to theories and definition of urbanism and planning. Relationships between urban development planning and questions of resource distribution are examined in their social ethnic spatial and political contexts.

URB 311. Urban Geography. (5-0-5)

This course focuses on the city as a center of economic, political, cultural, and intellectual activity. It studies the urban infrastructure using the conceptual tools of physical and cultural geography.

URB 395-396-397. Internship. (2-20-5)

The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full quarter for completion, during which the student will be under the joint supervision of the sponsoring agency and a faculty advisor. Credit will be arranged by the faculty advisor and the department chairman.

URB 490. Senior Seminar. (5-0-5)

Designed to be taken during the senior year to help integrate classroom learning, basic theory, readings, and life experience with internship experiences. Prerequisite: URB 395.

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Masters in Public Administration

Graduate Faculty

Ja A. Jahannes, Dean
Willie Johnson, MPA Coordinator
Thomas Byers
Otis Johnson
Hanes Walton

Purpose

The School of Humanities and Social Sciences is strongly committed to the Development of the intellectual, social, and professional competence of individuals. Consistent with this philosophy, the School and Savannah State College provide programs which enable students to acquire specialized training in a chosen field. The Masters of Public Administration Program (MPA) strives to broaden the student's understanding of the problems and opportunities of urban communities and develop an awareness of social and civic responsibility. The MPA Program is dedicated to service through educational programs; community involvement; faculty and student research, and scholarship. By offering advanced professional training, the Program prepares individuals for positions of responsibility in all levels of government, education and business.

Admission Procedures

Admission to the MPA Program may be completed through the MPA Coordinator, School of Humanities and Social Sciences, Savannah State College, Savannah, GA. 31404. All admission documents and a \$10 nonrefundable application fee must reach the College 20 days prior to registration. Graduates of Savannah State College need not pay the \$10 fee.

The following materials are required for admission:

1. The application form must be completed.
2. Two official transcripts showing all college credits earned for the undergraduate degree should be sent to the MPA Coordinator directly from the college which awarded the degree. Official transcripts are required of all applicants except transient students who may submit a letter of authorization from their graduate school 20 days prior to registration.
3. Graduate Record Examination (GRE), General Test scores must be submitted by all degree-seeking students.
4. Two letters of recommendation from individuals familiar with the applicant's ability to successfully complete the graduate program must be submitted.

Action on admission can be taken only after essential materials are received.

Categories of Admission

Full Admission

Full admission means an applicant has met all admission requirements and is admitted to a degree program with full graduate status.

The requirements for full admission are, graduation from an accredited college or university with an undergraduate grade point (GPA) of 3.0 on a 4.0 scale and a score of 900 or better on the Graduate Record Examination.

Provisional Admission

Provisional admission means that a student has applied for admission to the MPA Program but has some condition affecting his/her status; e.g., low GRE score (800-899), low GPA (2.50 - 2.99), need for preparatory course work. The Student is admitted to the Program but must meet the following requirements before achieving full admission status.

Requirements

Upon completion of 15 hours (3 courses) of graduate level work with a "B" grade or better in each, admission will be reclassified as "Full Admission" providing all other requirements of admission have been met. Failure to achieve a "B" grade in each of the first 3 graduate level courses will result in the applicant's being dropped as a degree seeking student.

Preparatory course work will not be counted as part of the 3 required graduate level courses.

Preparatory Course Work

To qualify for admission to full graduate status in the MPA Program, applicants must show competence in the common core of public administration knowledge. Generally, this core consists of an understanding of the operation of federal, state, and local government; familiarity with management techniques, and competency in policy analyses and formulation. Students who have received a bachelor's degree in public administration, political science, urban planning or policy science generally have fulfilled this requirement. Students with degrees in other disciplines will need preparatory work before beginning the MPA Program. The preparatory requirements may be satisfied by:

1. Satisfactory completion of appropriate undergraduate level courses selected with the approval of the MPA Coordinator. Not more than 15 hours of such courses shall be taken.
2. Scoring not less than the fiftieth (50th) percentile on the appropriate subject examinations of the College Level Examination Program (CLEP). The CLEP examinations are available through the testing service of the College.

Academic credit earned in preparatory course work will not count for the total hours required for the MPA degree.

Special Admission Procedure

Any student failing to fulfil the requirements to gain provisional admission into the MPA Program may request a special review of his or her application.

This appeals process will take into account the affirmative action obligations of the College. As a minimum, this review will consider the following factors;

1. Each student who makes such a request who has not presented a satisfactory GRE score should have taken the test a minimum of two times.
2. All students who make such a request can do so only after they have exhausted the fifteen hours of non-degree preparatory work. The Graduate Committee will give special consideration to the classroom performance of the students in these three courses, including personal interviews with the professors if necessary.
3. The Committee will carefully review the student's grade point average in the undergraduate major.
4. The Committee will also give special attention to the student's performance during his or her last two years of academic work.
5. The Committee will give careful consideration to appropriate work experience related to the program of study in the MPA Program.
6. Special consideration will be given to both the GPA and the GRE scores so that an exceptionally high score in one of these can be taken into account as a means of off-setting a less than minimal score in the other.
7. The Committee will request letters of recommendation from professional supervisors, colleagues, and other persons knowledgeable about the applicant's personal attributes, professional training, and life experiences that would indicate a high probability of academic success.
8. Each applicant should submit in writing a specifically detailed statement indicating why he or she should be admitted into graduate study in the program. This letter should be addressed to the MPA Program Coordinator.
9. The Committee shall choose such other criteria as are deemed necessary in each individual case.

TRANSIENT STUDENT

(Special Nondegree Status)

Transient students must arrange to have written authorization sent to the Dean from their dean, department head, or registrar at the graduate school in which they are enrolled in order to be accepted as a transient student and register in the MPA Program. They must also submit the application for admission and the \$10 fee as described in Admission Procedures. If they wish to become degree seeking students, they must request appropriate admission in writing and must submit the necessary document.

READMISSION

Any student in the Graduate Program who did not register during the quarter immediately preceding the quarter he/she intends to reenroll must process a readmission form with the Registrar's Office.

STUDENT RESPONSIBILITY

The student is charged with the responsibility for taking the initiative in meeting all academic requirements and in maintaining a careful check on his/her progress toward earning a degree. The student is responsible for discharging his/her obligations to the business office and the library. Further, the student is responsible for adhering to the rules and regulations pertaining to graduate students in particular and to all students enrolled in a unit of the University System of Georgia.

TRANSFER OF GRADUATE CREDITS

A maximum of 15 quarter hours of graduate credit may be transferred from another institution, provided:

1. each course equates with a course in the curriculum of the MPA Program or is an acceptable elective;
2. the credit was earned in an accredited graduate program;
3. a grade of "B" or better was earned in each course;
4. the credit was earned no more than six years prior to completion of all degree requirements.

PROCEDURES FOR PROCESSING TRANSFER CREDITS

Requests by students to receive transfer graduate credit must be supported by two copies of the graduate transcript showing the transfer credits requested. The formal and final request for receiving transfer credits is part of the Application for Candidacy which the student must process upon the completion of 25 hours of graduate work. This application is obtained in the MPA Coordinator's Office.

Advisement on transfer of credits is routinely provided on the Program of Study form which every degree-seeking student (regular or provisional status) must complete with an adviser in the first quarter of enrollment. Formal approval of transfer credits is granted via the student's Application for Candidacy which requires approval by the student's adviser and the MPA Coordinator.

ACADEMIC STANDARDS

MPA students must maintain a grade point average of 3.0 or above for all graduate work.

The following criteria apply to all degree categories: (1) Grades of lower than "C" will not receive graduate credit; (2) a maximum of two "C's" may be applied to the degree; (3) a student receiving two "C's" or one "F" shall have his/her record reviewed by the MPA Coordinator and the Graduate Council to determine if the student is to be permitted to remain in a degree-status category; (4) a student receiving two "F's" or any three grades below "B" becomes ineligible for a graduate degree.

COURSE LOAD LIMITATION

A full-time graduate student is expected to carry no more than 15 hours per quarter. The course load for the fully employed student should be appropriately reduced in consultation with his/her adviser. A student on academic probation or on Provisional Admission status should carefully plan his/her course load in consultation with the adviser.

WITHDRAWAL, DROPPING, AND ADDING COURSES

Withdrawal is, in the technical sense, dropping all courses and processing a formal withdrawal through the Office of the MPA Coordinator which issues a withdrawal form. A student may withdraw from school at any time during the quarter. Only by formally withdrawing, however, can a student become eligible for the refunds of fees as explained in the College Catalog. The student bears the responsibility of contacting the Coordinator's Office to officially drop a course and obtain the signature of his/her professor. Course withdrawals before mid-term are recorded as "W"; any course withdrawals after midterm are recorded with a grade of "F". Adding a course may be accomplished through the Registrar's Office which will process a drop/add slip. Courses may be added only during the late registration days at the beginning of the quarter and not at any other time during the quarter. The student must pay the appropriate fee for the additional course, unless a course comparable in credit hours is being dropped simultaneously.

ADVISEMENT

Upon admission to the MPA Program, each student will be assigned a faculty advisor who will approve scheduling of course work, recommend the student for candidacy, and serve as Chairman of the Student's Comprehensive Examination Committee. Special pre-registration advisement sessions will be held in advance of each quarter's registration. The advisors will interpret the program of studies for the student and help direct the student into a course of study relevant to the Program's standards and student needs.

COURSEWORK REQUIREMENTS

The MPA Course of study will consist of 60 hours of Public Administration Social Science, and Business Administration coursework (12 courses) plus a 10 hour internship. The 12 courses will be taken in any combination or sequence approved by the student's advisor, except that all students will complete the core of seven courses noted in the Curriculum Outline that follows:

Core Requirements - Quarter Hours 35

General Administrative Core

PAD 675 Ethics for the Public Administrator

PAD 677 Local and State Budgeting and Financial
Management

PAD 680 History, Scope and Practice of Public
Administration

PAD 685 Management of Human Resources in the Public
Service

PAD 690 State Government Administration

or

PAD 695 Local Government Administration

Analytical Core

PAD 696 Research Methodology I (Research Design and Statistics)

PAD 697 Research Methodology II (Program Evaluation)

Electives - 25 Quarter Hours (Business Electives should not exceed 15 Quarter Hours)

PAD 601	PAD 625	PAD 650	BAD 601	BAD 635
PAD 605	PAD 630	PAD 655	BAD 604	BAD 662
PAD 610	PAD 635	PAD 660	BAD 613	
PAD 615	PAD 640		BAD 640	
PAD 620	PAD 645			

Internship Requirement

Each student will complete a formal internship in public administration with an agency or organization approved by MPA Coordinator. The internship and a companion paper will receive an additional 10 hours of academic credit.

ADMISSION TO CANDIDACY

It will be the responsibility of the student to make application for admission to candidacy after the completion of all prerequisite courses and 25 hours of 600-level graduate course work. This application will be in three copies to the faculty adviser. Admission to candidacy is contingent upon verification that the student has attained a "B" average in 25 hours of graduate course work and has met all regular admission requirements including:

1. an acceptable score on the Graduate Record Examination General test,
2. completion of all undergraduate prerequisite courses; and
3. removal of provisional admission status, when applicable.

COMPREHENSIVE ORAL EXAMINATION

A final comprehensive oral examination, to be scheduled in a student's final quarter and at least two weeks prior to graduation, is required of all candidates for the Degree of Master of Public Administration. The final examination will be conducted by a committee consisting of the student's faculty adviser as chairman and other members of the graduate faculty appointed by the MPA Coordinator. The date, time, and place of examination will be set by the Coordinator after consultation with the faculty adviser and the student.

The Coordinator shall notify the student, the Committee members, and the Dean ten days prior to the examination concerning the proposed place, date, and time of the examination.

The candidate is expected to demonstrate a thorough understanding of the common core of knowledge in business, economics, and statistics, and adequate competency to discuss advanced material in those areas in which he/she has had graduate work.

GRADUATE COURSE DESCRIPTIONS

PAD 601 Public Policy (5-0-5)

Emphasis on the process by which public policy is formulated, adopted and implemented. Models of policy analysis will be examined. Selected case studies drawn from contemporary policy issues will be reviewed in detail.

PAD 605 American National Government (5-0-5)

Emphasis on the process within the U.S. system of federalism. Issues arising from conflict between branches of government and between levels of government will be reviewed and analyzed.

PAD 610 Contemporary Issues in American Public Administration (5-0-5)

Analytic perspectives are offered on major current issues in American Public Administration. Such topics as changing normative bases of administration, bureaucratic representativeness, administrative reorganization procedures, the "New Accountability" will be addressed.

PAD 615 Urban Government (5-0-5)

Focuses on an analyses of administrative and organizational activities of metropolitan governments. Special attention is given to alternative forms of metropolitan government, regional councils of governments and selected problems of metropolitan areas.

PAD 620 Urban Development Issues and Problems (5-0-5)

Emphasis placed in the interaction of economic, social and political factors which shape urban development. Selected geographic areas and cases in planning will be analyzed.

PAD 625 Planning Resources (5-0-5)

A study of the scope, theories, resources and politics of urban, regional, state and national planning practiced in the USA today.

PAD 630 Social Welfare Planning and Administration (5-0-5)

Focuses on issues of social welfare policy in the U.S. and on the role of federal, state and local governments in administering social programs. Selected cases will be reviewed.

PAD 635 Intergovernmental Relations (5-0-5)

Constitutional, political, economic and institutional relationships among federal, state and local governments are reviewed.

PAD 640 Seminar in Constitutional Law (5-0-5)

Reading, research and group discussions on constitutional law, politics and the judicial function are emphasized. Significant legal cases are reviewed.

PAD 645 Administrative Law (5-0-5)

Designed to introduce administrators to the field of administrative law and the legal perspectives from which such law originates. Topics include 1st and 4th Amendment considerations, Freedom of Information Act, the Privacy Act and the Administrative Procedure Act.

PAD 650 Administration of Justice (Criminal Justice) (5-0-5)

Examines the legal structure which supports the criminal justice system. Current and future problems of law enforcement will be discussed including judicial processes, community relations, civil liberties.

PAD 655 Economic Politics (5-0-5)

Examines the role of non-elected officials and non-government institutions in shaping public policies. Special attention given to cases drawn from contemporary issues.

PAD 660 Directed Readings (5-0-5)

Individualized research focusing on problems in public administration. Topic to be mutually designed by instructor and student.

PAD 675 Ethics for the Public Administrator (5-0-5)

The ethical standards of the public administrator in an environment demanding problem solving is examined against a background of American political, social, and economic ideas.

PAD 677 Local and State Budgeting and Financial Management (5-0-5)

The means by which local and state governments raise and spend money is examined from an administrator's viewpoint.

PAD 680 History, Scope and Practice of Public Administration (5-0-5)

A Survey of the Evolution of Public Administration in the United States.

PAD 685 Management of Human Resources in the Public Service (5-0-5)

Public personnel management from a development and normative perspective; an examination of its new role as a force for social and economic equity.

PAD 690 State Government Administration (5-0-5)

A seminar designed to study selected aspects of state government policies, politics, administration, and change.

PAD 695 Local Government Administration (5-0-5)

A seminar on selected topics of local government policies, politics, administration, and change.

PAD 696 Research Methodology I (3-4-5)

An introduction to research design with emphasis on the use of computer program packages for statistical analyses. Special attention given to methods of data collection with emphasis on survey research.

PAD 697 Research Methodology II (3-4-5)

Focus on the design and implementation of public policy evaluation research and on nonstatistical computer application in the public sector.

PAD 700 Internship (0-20-10)**BUSINESS ELECTIVES (No more than 15 hours)****BAD 601 Macroeconomics Analysis (5-0-5)**

National Income Accounting. Determinants of National income, employment, price level and growth rates. Prerequisite: Principles of Economics competency.

BAD 604 Business Relations with Government and Society (5-0-5)

Business environment with consideration of the economic, legal and social implications for policy making.

BAD 613 Administrative Communication

The role of communication in effective management; a study of foundation theory and principles for practical application; communication problems within, between, and among organizations, industrial and other groups; forms, media and channels available for conducting effective communications in business and industry.

BAD 630 Managerial Cost and Control (5-0-5)

The study of physical and monetary input/output relationships and use of such cost studies for managerial strategy, planning, and control. Prerequisite: Principles of Accounting Competency.

BAD 635 Accounting for Not-for-Profit Organizations (5-0-5)

Basic concepts and techniques for fund accounting for governmental, educational, religious, and charitable organizations; inclusive of management reporting problems. Prerequisite: Principles of Accounting Competency.

BAD 662 Human Behavior in Organizations (5-0-5)

Contributions and limitations of the behavioral sciences in the development of modern organization theory. Prerequisite: Principles of Management.

**DEPARTMENT OF SOCIAL WORK AND
APPLIED SOCIOLOGY**

OTIS S. JOHNSON, Ph.D., ACSW, Head

David M. Willems
Joenelle Gordon

Lillian Reddick
Ella H. Sims

Jeannette Jenkins, Secretary

The Department of Social Work and Sociology seeks to provide academic preparation for the profession of social work and the disciplines of sociology, and gerontology. There is a conscious effort made to integrate teaching, research, and community service through the activities of the faculty and students in the department. The departmental curriculum, internships and field experience are designed to develop scholarly and professional attitudes, values, and practice in social work, sociology and gerontology.

The social work program is fully accredited by the Council on Social Work Education (CSWE) and offers the Bachelor of Social Work (BSW) degree. A Bachelor of Science degree is offered in Sociology. The department offers minors in the field of social work and gerontology.

SOCIAL WORK CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107 and Computer Science 125 and 126	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours

Area III—Social Sciences: 20 hours required

Psychology 201	5 hours
Political Sciences 200	5 hours
History 102-202-203	15 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Psychology	5 hours
Sociology 201	5 hours
Social Work 250	5 hours
Sociology 215	5 hours
Sociology 200	5 hours
Sociology 255	5 hours

Additional Requirement:

Physical Education	6 hours
General Education 101	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 95-99 quarter hours

Major Requirements: 60 quarter hours as specified	
Social Work 305-320-330-333-334-335-440	35 hours
Two of the following:	
Social Work 406, 410 or 430	10 hours
Social Work 451-452-475	25 hours
Sociology 300	5 hours
Minor Requirements	25-29 hours

**COMPREHENSIVE EXAMINATION FOR
SOCIAL WORK MAJORS**

Senior social work majors are required to take an institutional examination as the comprehensive examination in their field and the aptitude section of the Graduate Record Examination.

SOCIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences:	
Mathematics 107 and Computer Science 125 and 126	10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124 or 126-127	
Chemistry 101-102	
Physics 201-202	10 hours
Area III—Social Sciences: 20 hours required	
History 101-102	10 hours
History 202-203	10 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
ANT 201	5 hours
PSC 200	5 hours
PSY 201	5 hours
SOS 111	5 hours
CRJ 200	5 hours
SOC 200	5 hours
Additional Requirements:	
Physical Education	6 hours
General Education 101	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 93 quarter hours

Major Requirements: 50 hours as specified	
Sociology 201-215-350-423-454-455-460	34 hours
Social Work 303-320	10 hours
Sociology 300	5 hours
Minor Requirements	29 hours
General Electives	15 hours

**COMPREHENSIVE EXAMINATION FOR
SOCIOLOGY MAJORS**

Senior sociology majors are required to take the Advanced Test in Sociology of the Graduate Record Examination (GRE) as the comprehensive exit examination in their field.

**MINORS IN SOCIAL WORK, SOCIOLOGY AND
GERONTOLOGY**

The Department of Social Work and Sociology offers the following minors:

<i>*Social Work</i>	Quarter Hours
SWK 305	5
SWK 320	5
SWK 330	5
SWK 440	5
Elective (SWK 406, 410 or 430)	5
	25

*Social Work 250—Introduction to Social Welfare is a prerequisite to entering the minor. It is listed in Area IV of the Social Work major.

<i>Sociology</i>	Quarter Hours
SOC 201	5
SOC 215	5
SOC 350	5
SOC 423	4
SOC 454	5
SOC 460	5
	29

<i>Gerontology</i>	Quarter Hours
GER 201	4
GER 301	5
GER 302	5
GER 320	5
GER 410	5
GER 475	5
	29

DESCRIPTION OF COURSES

SOCIAL WORK

250. Introduction to Social Welfare. (5-0-5)

This introductory course covers the historical development of social welfare measures and programs. Basic social welfare concepts and terminology are introduced. The broad range of social welfare efforts to resolve social problems is reviewed. A framework for analysis and assessment of social problems is presented and a special effort is made to help students develop beginning skills in the analysis of social welfare policies and programs. *Fall.*

305. Introduction to Social Work Practice. (4-2-5)

This is an introduction to the professional practice of social work. The student examines the goals, guiding philosophy, basic assumptions of the profession. The generalist problem-solving practice model is introduced. A survey of practice settings is made and attention is given to the development of beginning practice-focused analytical skills. Prerequisite: SWK 250. *Winter.*

310. Human Growth and Social Environment. (5-0-5)

A course designed to examine the reciprocal relationship between man and his environment and the effects of this relationship on one's physical, emotional, and social development. Emphasis will be placed on facilitating human adaption to internal and external stress throughout the life cycle. Prerequisite: SOC 201, PSY 201 and SWK 250. *Spring.*

SOC/SWK 320. Minorities and the Social Environment. (5-0-5)

The course examines the problems faced by minorities in America, especially where skin color and language pose social and economic barriers. It looks at dominant public attitudes and patterns of response by minorities such as Black Americans, Chicanos, Puerto Ricans, Native Americans and the sizable ethnic groups. Prerequisite: SWK 250. *Winter.*

333. Interventive Methods I. (4-2-5)

A course designed to develop and sharpen interpersonal skills. The student learns to use conversation, observation and analytical helping skills in a variety of roles played by the generalist social worker. The course presents the student with a wide variety of interview situations in which he must demonstrate a high degree of competency. Prerequisite: SWK 305. *Fall.*

334. Interventive Methods II. (4-2-5)

This course teaches an approach to human problem solving utilizing a systems approach with emphasis on patterns of coping, family relationship, behavioral study, diagnosis, treatment or plan of action. Competency in crisis intervention and selection of proper treatment modality must be demonstrated. Prerequisite: SWK 305. *Winter.*

335. Interventive Methods III. (4-2-5)

A sequel to SWK 334 with the main thrust on neighborhood and community need. It is predicated on the concept that wherever there is widespread human need or suffering there is a breakdown of some aspect of social system. Using multiple roles of the generalist, particularly data gatherer, analyst, consultant, mobilizer, and advocate, the students are taught interventive methods to correct system dysfunction and its impact on people. Prerequisite: SWK 305. *Spring.*

406. Child Welfare. (4-2-5)

This course reviews child development and social behavior with an emphasis on the practical application of understanding the psychosocial, mental, and physical development of children. The environmental and family situation is studied and related to the child's development or lack thereof. Prerequisite: SWK 310. *Fall*.

410. SWK/GRN. Services to the Elderly. (4-2-5)

A course designed for students going into public or private agencies serving the elderly. Emphasis will be placed on the social, economic, and health needs of the elderly with attention to delivery systems that work. New knowledge, research, and actual projects will be studied when practicable. Prerequisites: SWK 310 or permission of social work program coordinator. *Winter*.

430. SWK/SOC. Alcohol and Drugs Studies. (5-0-5)

A course focusing on the various forms of alcohol and drug use with emphasis on the stages of harmful dependence and addiction. There will be an examination of the legal and social implications of addition, as well as approaches to treatment and rehabilitation. Prerequisites: SWK 310 for SWK majors. Others by permission of instructor. *Spring*.

440. Welfare Policy and Services. (5-0-5)

This is a study of the development and administration of social welfare policies and services which society establishes to provide for the needs and general well-being of the population. An analytical and critical assessment of the social welfare system is made to facilitate an understanding of the relationship between social values, political and economic influences, and the formulation and implementation of social welfare policies and programs. Prerequisite: SWK 250. *Fall*.

451. Field Experience I. (0-20-10)

Each student will work in a social service setting a minimum of 20 clock hours per week. It is designed for optimal learning experience with clients, agencies and the community. It is to increase student knowledge and ability under professional supervision. There will be a weekly meeting with the Field Coordinator. Restricted to social work majors. *Winter*.

452. Field Experience II. (0-20-10)

This is an advanced field experience wherein greater proficiency and additional skills are expected from the student. The student must demonstrate competency in a variety of roles played by the generalist social worker. Student will take SWK 475 concurrently. Prerequisite: SWK 451. *Spring*.

475. Senior Seminar. (5-0-5)

This is a required course taken concurrently with SWK 452. It is designed to integrate classroom learning, basic theory, professional journal reports and life experience with the student's experience in the field. Prerequisite: SWK 451. *Spring*.

SOCIOLOGY (SOC)

200. Social Statistics. (5-0-5)

An introduction to statistical methods relevant to Social Work and the Social Sciences. Measures of central tendency and dispersion; probability distributions; inferences concerning means; standard deviations and proportions; the distributions; the one-way and two-way analysis of variances; the chi-square test; correlation and regression.

201. Introduction to Sociology. (5-0-5)

An analysis of the development of human group life; structure of the social environment and its influence upon the individual's behavior. *Fall, Winter, Spring.*

215. The Family. (5-0-5)

The role of the family in the development of the individual. Current psychological, economic, social, educational and ethical problems of marriage and family life. Prerequisite: SOC 201. *Fall, Spring.*

255. Modern Social Problems. (5-0-5)

Analysis of the causes of poverty, disease, crime, family disintegration, and personality maladjustments; preventive measures for human problems. Prerequisite: SOC 201. *Fall.*

300. Research in the Social Sciences. (5-0-5)

A survey of methods and techniques designed to acquaint students with various types of research utilized in social work and the social sciences.

375. The Sociology of Religion. (2-0-2)

An introduction to the study of religion as a social phenomenon. The sociological issues surrounding religious expression are critically discussed.

395-396-397. Internship. (0-5-0)

The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency, and for which he will receive a stipend. Projects are normally designed to require the full eleven week quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. All credit arrangements must be made through the students major advisor.

403. Individual Study and Independent Research.

This course provides an opportunity for students to do supervised individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors.

423. Criminology. (4-0-4)

The sociological approach to crime. An investigation of the causes, nature, and extent of crime and the policies used in dealing with crime and the criminal. Prerequisite: SOC 255. *Winter.*

454. History of Social Thought. (5-0-5)

A consideration of the development of sociological theories from classical to modern times, with special emphasis on recent and contemporary theories in Europe and America. Prerequisite: SOC 201. *Winter.*

455. Contemporary Social Thought. (5-0-5)

Examines the various schools, perspectives, and theories involved in modern sociology. The study will include the historical antecedents of contemporary schools of thought in philosophy and sociology. Strengths and weaknesses of all significant theories will be analyzed. *Spring.*

460. Seminar on the Black Experience. (5-0-5)

Study of historic and current trends in selected sociological frames of reference of experiences encountered by black people in the United States, emphasizing social movement and social change, urban and institutional process, social values and personality formation. *Winter*.

GERONTOLOGY (GER)**201. Introduction to Gerontology. (4-0-4)**

General introduction to gerontology with emphasis on the normal activities of aging. Review of current studies on the roles, activities, and status in the later years, including income status and needs—as worker, retiree, users of leisure, family member.

GRN/PSY 302. Psychology of Aging. (5-0-5)

This class will explore the general psychological effects of aging on the populace of the United States of America. A cursory comparison of aging and its effects on the populace of several other nations will also be explored. Accepted and/or often used terms to describe chronological, physiological and psychological aging will be compared as well as the concept of ageism and some of its effects. Prerequisite: PSY 201.

301. Biological and Physiological Aspects of Aging. (5-0-5)

The general biology of aging; physiological changes with age; theories of biological and physiological aging; factor affecting longevity, genetic aspects of aging.

320. Black Aging. (5-0-5)

Historical, demographical, and socio-economic profile of Black aged. An analysis of major problems encountered by Black elderly persons with a review of issues such as income, health, housing, and transportation. The unique aspects of Black religion, family ties, language habits, coping behaviors, and population distribution will be emphasized.

401. Consumer Economics and Law for the Aging. (2-0-2)

An examination of age related consumer and legal concerns. This will be a practical course including exploration of such topics as wills, and other legal matters, generic drugs, health care costs, food and nutrition, budget management, fraud and consumer protection laws.

410. GRN/SWK. Services to the Elderly. (4-2-5)

A course designed for students planning to work in public or private agencies serving the elderly. Emphasis will be placed on the social, economic, and health needs of the elderly with attention to delivery systems that work. New knowledge, research, and actual projects will be studied where practicable.

420. Death and Dying. (2-0-2)

A study of the literature expressing historical, social, and cross-cultural attitudes towards death and dying. Designed to help students understand death in its social context.

430. Physical Fitness and Recreation for the Elderly. (0-2-1)

This course will focus on the physiological, psychological, and sociological values of physical exercise and recreations for the older adult. Students will have an opportunity to develop physical fitness and recreational programs for healthy, community living adults and the less vigorous or institutionalized adult.

451. Field Experience. (0-20-5)

The student will be assigned to work under professional supervision in a facility for older people, such as a home for the aged, senior citizens activity center, or housing development.

475. Seminar in Gerontology. (5-0-5)

This course is designed to integrate theoretic classroom learning with practical experience gained by the student in the field.

ANTHROPOLOGY (ANT)**201. Cultural Anthropology. (5-0-5)**

Anthropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture.

SCHOOL OF SCIENCES AND TECHNOLOGY

MARGARET C. ROBINSON, Dean
Lisa D. Earls, Administrative Secretary

The School of Sciences and Technology comprises undergraduate programs in Biology, Chemistry; Mathematics, Physics, and Computer Science; Engineering Technology, and Naval Science. It offers Bachelor of Science degree programs with majors in Biology, Environmental Studies, Marine Biology, Medical Technology, Chemistry, Mathematics, Physics, Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, and Computer Science Technology.

The Associate degree programs include majors in Civil Technology, Computer Technology, Electronics Technology, Mechanical Technology, Marine Science Technology and Chemical Engineering Technology. These programs are designed to train students to become technicians for work as paraprofessionals in industry or for assisting professional engineers.

The School of Sciences and Technology offers minors in Biology, Chemistry, Mathematics, Physics, Computer Science, Naval Science (Marine or Navy Option) and Military Science (Army).

The Biology Program provides access to broad preparation for employment at the level of support personnel, for graduate study in biology, for graduate study in related areas such as environmental sciences or the medical or dental professions.

The Chemistry Program is aimed at providing the fundamental knowledge required for participation in chemically oriented industries, for graduate study for chemistry, or in preparation for medical or dental studies.

The Mathematics Program covers the major areas of mathematics and physics and is designed so that the student can have the opportunity to prepare for a position immediately after graduation, or for continuing with graduate studies. The physics major provides the opportunity for the preparation of student interested in a professional career in physics or an immediately adjacent field or a strong base in physics for students seeking to pursue careers in, for example, medicine, business administration, oceanography, and also those seeking immediate employment in industry, military service, and computer technology.

The Engineering Technology Program prepares students for careers in the technical and engineering fields in the civil, mechanical, and electronics areas. Additionally, the Engineering Technology program prepares and trains persons who plan to teach trade and vocational subjects in secondary and area vocational schools.

The Naval Science Program gives young men and women the choice of attending college in an academic discipline of their own choice while at the same time receiving military training that culminates with them being commissioned as military officers in the Navy or Marine Corps upon completion of the baccalaureate degree.

The Army Reserve Officers Training Program enhances a student's education by providing unique leadership and management training along with practical

experience. It helps a student develop many of the qualities basic to success in the Army, or in a civilian career. ROTC gives students a valuable opportunity to build for the future by enabling them to earn a college degree and an officer's commission at the same time.

SCIENCES AND TECHNOLOGY (SST)

100. Introduction to Sciences and Technology. (2-1-3)

This course is required for all freshmen majoring in science and technology disciplines. It is designed to expose them to a series of experiences, strategies and techniques that will assist them in achieving academic excellence. The course will also introduce students to the fundamental concepts and applications of microcomputers.

101. Cooperative Education Seminar. (1-0-1)

Designed to prepare co-op students in developing a sense of appreciation for co-op work experience. Covers the rudiments of job interviewing, test consciousness and career planning. *All quarters.*

202-300-301-400. Cooperative Education Work Experience. (0-0-5)

Student works full-time in industry under the supervision of the Director of Cooperative Education. Each course has specific written requirements. *All quarters.*

405-406-407. Cooperative/Internship Experience. (0-0-5)

Provided to accommodate students experiencing summer internships provided by the College as well as those students enrolled in the Cooperative Program. It may be substituted for SST202, 300, 301 or 400. *Summer.*

DEPARTMENT OF BIOLOGY AND LIFE SCIENCE

FRISSELL R. HUNTER, Head

C. Obi Emeh
Matthew Gilligan
Hetty B. Jones
P. V. Krishnamurti
Thomas R. Kozel

Govindan K. Nambiar
Joseph P. Richardson
Harpal Singh
Bernard L. Woodhouse

Elizabeth Jenkins, Secretary

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to provide professional training for persons interested in pursuing health careers such as medicine, veterinary medicine, dentistry, pharmacy, and paramedical careers such as medical technology, nursing, physical therapy, medical illustration, medical social work, and medical transcription; (3) to provide pre-professional study for persons interested in careers such as industrial and biological research, public health, college-level teaching, medical school teaching, secondary school teaching, marine biology, and environmental studies.

To realize these aims, the Department of Biology offers courses leading to the degree of Bachelor of Science with majors in Biology, (Premedicine or Preprofessional), Environmental Studies, Marine Biology, Medical Technology, and the Associate of Science degree in Marine Science Technology.

Plan of Study

Biology 123-124 is designed for non-science majors as a part of the general curriculum. The Biology Major: Biology 128, 200, 201, 202, 203 comprise the basic modern biology core requirements for all students majoring in Biology, and who desire training preparatory to either medical and paramedical careers or graduate study. Subsequent to the sequential completion of the Biology Core, students are required, in counsel with academic advisors, to select an option of biology electives according to their interest and desired area of concentration. The Biology Electives Option becomes a part of the student's formal record as requirements for graduation filed in the Department.

Students interested in paramedical (Health) careers satisfy the two-year basic Modern Biology Core sequence and science cognates according to specific requirements of selected specialized training schools. Students are required to plan health careers curriculums with an assigned advisor.

For the major at least thirty-five quarter hours of junior and senior level courses are required. For the minor, twenty-five quarter hours of junior and senior level courses are required.

COMPREHENSIVE EXAMINATION

Biology majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the Department Major Comprehensive Examination.

BIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

College Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III—Social Sciences: 20 hours required

Psychology 201	5 hours
Political Science 200	5 hours
History 102-202 or 203	10 hours

Area IV—Courses Appropriate to Major: 30 hours required

Physics 201-202-203	15 hours
Biology 120-128-200-201-202-203	15 hours

Additional Requirements:

Physical Education	6 hours
TSC	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 103 quarter hours

Major Requirements: 58 hours as specified

Biology 301-303-306-401-402-430-431	28 hours
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Major Options 20 hours

Zoology 304-315-318-326-411
 Botany 302-304-308-328-406
 Molecular Biology 304-407-420-425-426
 Ecology 309-313-328-332-400
 Microbiology 304-407-425-426-427
 Pre-Medicine 304-318-326-407-411
 Biotechnology 490, 491, 492, 493, 494, 498

Specific Electives:

Chemistry 303-307-308-331-404	25 hours
Mathematics 212-213	10 hours
Modern Foreign Language	15 hours
HMN 233 or 234 or CSC 250	5 hours

Biology Minor Requirements: 29 hours

Biology 301-303-304-306-307-309-328-332-401-402

MARINE BIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III—Social Sciences: 20 hours required

Psychology 201	5 hours
Political Science 200	5 hours
History 102-202 or 203	10 hours

Area IV—Courses Appropriate to Major: 30 hours required

Physics 201-202-203	15 hours
Biology 128-200-201-202	12 hours
Marine Biology 215	3 hours

Additional Requirements:

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 62 hours as specified

Marine Biology 219-280-382-481-484-485	29 hours
Biology 301-303-306-400-401-430-431	28 hours
Humanities 233 or 234	5 hours

Specific Electives:

Chemistry 303-307-308-404	20 hours
Mathematics 212	5 hours
Marine Biology 209-332-334	10 hours
Geology 300-404	8 hours

ENVIRONMENTAL STUDIES CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107-108	10 hours
Chemistry 101-104	10 hours

Area III—Social Sciences: 20 hours required

Psychology 201	5 hours
Political Science 200	5 hours
History 102-202 or 203	10 hours

Area IV—Courses Appropriate to Major: 30 hours required

Physics 201-202	10 hours
Biology 128-200-201-202-203	15 hours
Environmental Studies 201	5 hours

Additional Requirements:

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 108 quarter hours

Major Requirements: 63 hours as specified

Biology 301-303	10 hours
Physical Geography 204	5 hours
Geology 300	5 hours
Environmental Studies 301-302-304-305-306 (or Bio. 400) 365 or 400-403-405-410	38 hours

Specific Electives: 45 quarter hours

Chemistry 303-304-307	15 hours
Mathematics 212	5 hours
Economics 201	5 hours
Foreign Languages	15 hours
Computer Science 150	5 hours

MARINE SCIENCE TECHNOLOGY PROGRAM**A.S. Degree: 101 quarter hours required**

First Year: 52 hours required

English 107-108-109	15 hours
Mathematics 107-108	10 hours
Chemistry 101-104	10 hours
Biology 128-201-203	9 hours
History 102	5 hours
General Education 100	2 hours
Physical Education	1 hour

Second Year: 49 hours required

Physical Science 203	5 hours
Physical Geography 204	5 hours
Chemistry 115	1 hour
Marine Biology 209-280	7 hours
Marine Biology 291-292-293-294	20 hours
Marine Biology 332	3 hours
History 202 or 203	5 hours
Physical Education	3 hours

DESCRIPTION OF COURSES

BIOLOGY (BIO)

120. Freshman Biology Seminar. (2-0-2)

Topics in the Biological Sciences, emphasizing the integration of physical and chemical principles with biology. Discussions will include quantitative aspects such as units of measurement, interpretation of experimental results, handling of graphical data, and the role of chemical reactions in the control of plant and animal growth and development. *Fall, Winter, Spring.*

123-124. General Biology (3-4-5)

An introductory course for non-science majors which deals with the fundamental principles of plant and animal life. BIO 123 is a prerequisite to BIO 124. *Fall, Winter, Spring.*

128. Principles of Biology. (3-4-5)

Presentation of biology in broad perspective, to include such topics as origin of life, reproduction, heredity, evolution and interrelationship of living things to their environment. Prerequisite: CHE 101. *Spring, Fall.*

200. Molecular and Cellular Biology. (3-4-3)

Introduction to cell composition and fine structure, biosynthesis of macromolecules, enzymes structure and function, respiration, photosynthesis, transport, and the molecular basis of heredity. Prerequisite: BIO 128. *Fall.*

201. Organismal Biology. (2-4-3)

Relates Molecular and Cellular biology to the organismal concept, emphasizing structural and functional aspects of whole organisms (vertebrate animals and vascular plants), their development, life histories, behavior, diversity and evolution. Prerequisite: BIO 200. *Winter.*

202. Biological Organization and Control. (2-4-3)

Concepts of Mendelian genetics, morphology, growth and development, reproduction, tissue and organ structure, neural and endocrine control mechanisms, feed-back and cybernetics are discussed. Prerequisite: BIO 201. *Spring.*

203. Introduction to Ecology. (2-4-3)

An introductory study of concepts and principles underlying the interrelationship of plants and animals to the environment. Laboratory experiences to involve field studies coordinates with laboratory and field methods of ecological analysis. Prerequisite: BIO 202. *Spring.*

204. Environmental and Evolutionary Issues. (2-0-2)

Major issues facing mankind from a biological perspective such as overpopulation, food supply, pollution, nuclear energy utilization, genetic basis of race, medical and hereditary issues, etc. *Fall, Winter, Spring.*

205. Selected Topics in Modern Biology. (2-0-2)

Current topics and problems which confront or support the future well-being of the human population such as the Sickle Cell Anemia problem, organ transplantation, cryosurgery, utilization of synthetic food products, aquaculture, conception and contraception, aging, etc. *Fall, Winter, Spring.*

206. Introduction to Life Chemistry. (3-0-3)

Interdisciplinary approach to study of compounds found in living organisms, their biochemical reactions and their significance to living processes. Fundamental concepts emphasizing the contributions of biochemistry and biochemical processes to an understanding of modern biology. Prerequisites: CHE 101, 104. *Fall, Spring.*

207. Biology of Aging: Understanding the Golden Years of Life. (2-0-2)

A study of the human body, physiological and emotional changes during the aging process, and some practical methods of adjusting to these changes. *Fall, Winter, Spring.*

216. Vertebrate Zoology. (3-4-5)

An intensive survey of the morphology, taxonomy, physiology, behavior, and ecology of the chordates, with attention given to the basic principles and theories. The laboratory will consist of an introduction to comparative chordate anatomy. Prerequisites: BIO 203, ENS 201. *Winter.*

300. Basic Medical Lab Techniques. (1-4-3)

An introduction to basic lab procedures involved in urinalysis, hematology, blood banking, serology, parasitology and tissue examination. Principles and techniques involving colorimetry, spectrophotometry, electrophoresis and chromatography are to be emphasized. Prerequisite: BIO 202. *Spring.*

301. General Botany. (3-4-5)

An introduction to general principles of plant life with special emphasis given to cellular organization and control, inheritance, physiology, development, reproduction, and evolutionary relationships of flower plants. Prerequisite: BIO 201, 203, MBI 215. *Spring.*

302. Field Botany. (3-4-5)

A study of flowering plants common to this locale, including the identification, classification, and preservation of plant specimens. Prerequisite: BIO 301.

303. Principles of Genetics. (3-4-5)

Fundamental principles of Genetics: Variation, heredity, physical basis of mendelian inheritance, expression and interactions of genes, sex-linkage, linkage mutation and extra chromosomal inheritance basic concepts related to biochemical Genetics and population Genetics. Prerequisites: BIO 202 or 203, CHE 307. *Spring.*

304. Biological Histochemistry and Microtechnique. (3-4-5)

Theory and application of modern techniques and instrumentation to biological problems including histological preparation and preservation of biological materials. Prerequisite: BIO 307 or 318, CHE 307. *Spring.*

306. Microbiology. (3-4-5)

An introduction to fundamental concepts and techniques of microbiology; bacterial anatomy and physiology, principles of microbial growth, nutrition, and metabolism. Prerequisites: BIO 203, CHE 307. *Winter.*

307. Human Anatomy and Physiology. (3-4-5)

A detailed study of the location and functions of the organs of the human body. Prerequisites: CHE 307, BIO 203. *Fall.*

308. Plant Morphology and Structure. (3-4-5)

A study of morphology of certain non-vascular and vascular plants stressing identification, life histories, ecology and evolutionary development. Prerequisite: BIO 302. *Fall*.

309. Ecology. (3-4-5)

The structure and function of ecosystems in regard to energy flow, nutrient cycling population growth and regulation, and community organization and dynamics. Man's impact on ecosystems and resulting social problems. Laboratory and field studies. Prerequisite: BIO 203. *Spring*.

310. Food Microbiology. (3-4-5)

Introductory microbiology course emphasizing the following: Classification and nomenclature of microorganisms, foodborne disease hazards and food safety; food processing, preservation, and quality control, and intentional/unintentional additives. Prerequisites: BIO 203, CHE 308. *Fall*.

313. Urban Health. (3-0-3)

An introduction to a variety of environmental and occupational health hazards of an urbanized society. Topics covered include biological and health effects of environmental pollutants, disease vector, food and housing sanitation, occupational health hazards. Social psychological stresses as well as environmental planning and management. Prerequisite: Junior Standing. *Winter, Summer*.

315. Invertebrate Zoology. (3-4-5)

A study of major phyla of invertebrate animals, morphology, physiology, life histories and taxonomic relationships of selected responsibilities of the groups. Prerequisites: BIO 203, 206. *Fall*.

318. Vertebrate Structure and Function. (3-4-5)

(Amalgamation of Comparative Vertebrate Anatomy and Histology of Vertebrates). A comparative study of the organ systems of selected vertebrates with emphasis given to the gross anatomy of the cat; histological organization and function of vertebrate organs. Prerequisites: BIO 203. *Fall*.

324. Plant Anatomy. (3-4-5)

A general consideration of the anatomy of seed plants with special emphasis on the angiosperms. Prerequisite: BIO 308. *Winter*.

326. Vertebrate Embryology. (3-4-5)

A study of the embryological development of vertebrates including fertilization, cleavage and origin of organ systems. Prerequisite: BIO 304. *Spring*.

328. Field Ecology. (3-4-5)

An advanced field course emphasizing population ecology; methods of measuring plant and animal populations, demographic analysis and movements of organisms. Prerequisite: BIO 301. *Spring*.

332. Principles of Biostatistics. (3-4-5)

An introduction to the reasoning and applications of statistics in planning experiments and in analysis and interpretation of biological data. Special emphasis given to population statistics, samples and variates; summary of observed experiments and nonparametric significance tests. Prerequisite: BIO 203. *Fall*.

350. Transmission Electron Microscopy. (1-4-3)

An introduction to instrument theory and specimen preparation for transmission electron microscopy. Emphasis upon techniques of fixation, embedding, ultramicrotomy, staining and photography. Prerequisites: Junior Standing and approval of Department Head. *Winter*.

351. Molecular Biology. (3-4-5)

Detailed analysis of structure and ultrastructure of the cell; bio-chemistry, biophysics, physiology and molecular genetics. Prerequisite: CHE 308. *Spring*.

400. Physiological Ecology. (3-4-5)

A study of the anatomical, biochemical, and physiological adaptation of plants and animals to specific environments. Emphasis will be placed on the physiological problems faced by organisms common to the local salt marsh and marine environments. Prerequisites: BIO 309, CHE 307; MBI 282. *Fall*.

401. General Physiology. (3-4-5)

A study of functional physico-chemical occurrences in living organisms. The physiological roles of water, chemical constituents, pH, diffusion, osmosis, permeability, surface phenomena, viscosity, temperature, oxidation-reduction enzymes, and bioelectricity will be considered. Prerequisites: BIO 203, 206; CHE 308, PHY 202; MBI 215. *Fall*.

402. Animal Physiology. (3-4-5)

A study of vertebrate systematic physiological processes. Topics to be considered are: nervous and endocrine control mechanisms, muscle contraction, digestion, circulation, respiration, bioenergetics and metabolism, excretion and receptor physiology. Prerequisites: CHE 308, BIO 401. *Winter*.

406. Plant Physiology. (3-4-5)

An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. Prerequisites: BIO 301, 302; CHE 308. *Fall*.

407. Principles of Immunobiology. (3-4-5)

An introduction to the study of infection and immunity in disease, cell mediated and humoral immunity, immunochemistry and immunological methods. Prerequisite: BIO 306. *Spring*.

411. General Pharmacology I. (3-4-5)

A study of the general principles of Pharmacology, prescription writing, drug prices, cardiovascular drugs, sedatives and hypnotics, alcohol, histamines and antihistamines, analgesic drugs and drugs affecting behavior. Prerequisites: BIO 301, 401; CHE 308. *Winter*.

412. General Pharmacology II. (3-4-5)

Continuation of Biology 411, and includes such topics as general anesthesia, local anesthetics, drugs acting on the gastrointestinal tract, diuretics, chemotherapeutic agents, chemotherapy of certain neoplastic diseases, gonadal hormones, insulin and oral hypoglycemic agents, poisons and antidotes, and pesticides. Prerequisite: BIO 411. *Spring*.

418. Physiological Chemistry. (3-4-5)

Fundamentals of biological chemistry with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and regulation of cellular processes. Prerequisite: CHE 308. *Winter*.

420. Molecular Genetics. (3-4-5)

The nature and function of genetic material, genetic code and physical basis of inheritance. The study also includes genetic control of cellular metabolism; mechanisms of gene action; genetic capacity for biosynthesis; gene enzyme relationship; and chemical nature of agents of heredity. Prerequisite: BIO 303. *Winter*.

425. Bacterial Physiology. (3-4-5)

Study of cellular structure, growth-kinetics, the syntheses of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation. Prerequisite: BIO 306. *Spring*.

426. Virology. (3-4-5)

A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation. Prerequisite: BIO 306. *Spring*.

427. Mycology. (3-4-5)

A study of the ecology, physiology and systematics of micro-fungi with emphasis on those forms which are of industrial or general economic importance. Prerequisite: BIO 306. *Winter*.

430. Biology Seminar. (0-2-1)

Introduction to biological literature, research methodology, manuscript preparation, and seminar presentation. Prerequisites: Junior or Senior Standing. *Fall, Winter, Spring*.

431. Introduction to Research. (2-0-2)

Student participation in faculty-supervised research projects. A manuscript and an oral presentation of research findings are required. Prerequisite: Junior or Senior Standing and Approval of Department Head. *Fall, Winter, Spring*.

440. Senior Research. (3-0-3)

An honors research project for students having a minimum grade point average of "B" and having demonstrated exceptional research potential. Prerequisite: BIO 430, Senior Standing. *Fall, Winter, Spring*.

Biology 450-451-452-453. Clinical Internship (48 Cr. Hrs.)

Clinical experience involves didactic and laboratory instructions in urinalysis, hematology, immunohematology, serology, microbiology, coagulation, clinical chemistry and related areas. Prerequisite: Senior Standing, and acceptance for Clinical training in a NAACLS approved hospital.

BIOTECHNOLOGY (BIO)**490. Chemical Biotechnology (2-4-4)**

Structure, synthesis and function of carbohydrates, proteins, lipids, and nucleic acids in animals, plants, and microorganisms; biological oxidation; enzyme structure and function; intermediary metabolism; regulation of metabolic pathways.

491. Applied and Industrial Microbiology (3-4-5)

Isolation characterization, propagation and industrial applications of microbial, plant, and animal cells to mass culture, culture preservation, and the production of chemical, antibiotics and monoclonal antibodies.

492. Introduction to Plant Molecular Biology (3-4-5)

Principles and applications of recombinant DNA and biotechnological processes to the development of novel products from plants.

493. Principles of Genetic Engineering (3-4-5)

Survey of concepts and applications of recombinant DNA technology, DNA sequencing, nucleic acid hybridization; gene and cell cloning; restriction endonucleases; vectors and viruses; plasmid, bacterial and eukaryotic DNA. 5 hrs.

494. In Vitro Cell Technology (3-4-5)

Principles, techniques and applications of plant tissue culture, hybridoma (monoclonal antibody) technology, somatic cell hybridization, cell and organ culture, culture and maintenance, virology and immunology. 5 hrs.

498. Biotechnology Internship (0-80-5)

Supervised individual research project conducted with a drug company, biotechnology company, or in a government, industrial, or university research facility. Project report required. 5 hours.

ENVIRONMENTAL STUDIES (ENS)

201. Environmental Studies. (3-4-5)

A survey of the environmental problems facing man: ecological, technological, cultural and economic. *Fall*.

301. Hydrology. (3-4-5)

Topics dealing with the fundamentals of the hydrologic cycle, budget and equation; precipitation, evapotranspiration, stream flow; ground water flow and urban vs. watershed models. Prerequisite: MAT 212 or equivalent. *Winter*.

302. Limnology. (2-2-3)

Evolution and morphology of ponds, lakes and streams; physical and chemical characteristics of inland water, aquatic biota, their taxonomy and ecology. Prerequisites: BIO 128, 301 and CHE 104. *Spring*.

304. Environmental Ethics. (3-0-3)

The basics in philosophical and ethical thought especially as related to the development in humankind of a new ecological ethic. Prerequisite: HUM 232, 233; BIO 203. *Fall*.

305. Environmental Aesthetics. (3-0-3)

Introduction to the assessment of environmental problems and issues from philosophical, literary, aesthetic, historical and anthropological perspectives. Prerequisite: ENS 201, HUM 232, 233. *Winter*.

306. Microbial Ecology. (3-4-5)

Relationships of microorganisms to their environment and to other organisms: symbiotic, soil and aquatic microorganisms are considered. Prerequisite: BIO 128, 203. *Fall*.

308. Environmental Surveying and Mapping. (2-4-3)

The basic tools of surveying: the transit, level, tape, EDM and alidade are introduced. Basic topographic and hydrographic map making and interpretation are studied. The modern tools: satellite imagery, infra-red photomapping and telemetry are considered. To be modularized. ENS 201, MAT 108, PHY 202. *Spring*.

309. Internship. (1-0-6)

Practical training and experience with an appropriate agency. Prerequisites: ENS 201, Sophomore Standing. *Fall, Winter, Spring.*

365. Environmental Planning. (3-0-3)

Introduction to environmentalism in land use planning strategies; zoning, subdivisions and community organization; growth control. Local, state and federal regulations on land use planning and development. *Winter.*

400. Environmental Law. (3-0-3)

The legal processes relating to resource conservation, utilization and the monitoring, control, and abatement of pollution of water, air and land. Prerequisites: ENS 304,305. *Winter.*

403. Environmental Issues in Environmental Design. (2-2-3)

Consideration of the historic, social, cultural and political issues which converge with ecological factors during the development of an acceptable environmental design. Prerequisites: ENS 304 or 305 and Senior Standing. *Winter.*

405. Environmental Impact Assessment. (2-2-3)

Multidisciplinary teams are organized to produce actual EIS's, Geology, soils, topography, hydrology, meteorology, biology, sociology and economics are all involved. Prerequisite: ENS 400 and Senior Standing or approval by Department Head. *Winter.*

410. Environmental Studies Synthesis Seminar. (2-2-3)

Involvement in and searching environmental studies literature, data collecting and analysis. A manuscript is prepared and presented. Prerequisite: ENS 405 and Senior Standing. *Winter.*

MARINE BIOLOGY (MBI)

150. Introduction to Marine Sciences. (4-4-3)

An introduction to marine sciences through the study of ocean geography, seawater, circulation, tides, waves, currents, marine biology and marine environments. Study of coastal processes, nearshore environments and inshore plants and animals emphasized through study in the field. *Summer.* (6 weeks).

209. Technical Writing. (2-0-2)

The practical study of organizing and presenting scientific and technical information. Covers the key elements of effective writing and communication in memorandums, letters, questionnaires, journals, articles, and abstracts. Prerequisite: ENG 109. *Fall.*

215. Marine Biology. (3-4-3)

Introduction to the physiology, morphology, taxonomy and ecology of marine organisms. Prerequisite: BIO 124 or 128. *Fall, Spring.*

219. Environmental Analysis Technique. (2-6-4)

Equipment and techniques employed in collecting and analyzing chemical, biological, geological and physical samples and data from marine and coastal environments. Prerequisite: CHE 104 and MBI 280. *Spring.*

250. Field Studies in Marine Biology. (3-12-5)

This field and laboratory oriented course focuses upon general topics in marine ecology, behavior and biogeography. General aspects of fish biology are discussed (e.f., basic taxonomy, behavior and ecology) with emphasis on field methods and techniques used in sampling, observation and hypothesis testing. Part of the course will be conducted at Savannah State College on the Georgia coast and part at a coral reef. This is a three (3) week course. Prerequisite: Consent of instructor. SCUBA certification is recommended. *Summer.*

280. Introduction to Oceanography. (3-4-5)

Survey of basic concepts and interrelationships of physical, geological, chemical, and biological oceanographic and inshore ecosystems. Introduction to function and application of oceanographic equipment. Prerequisite: BIO 124 or 128 or CHE 104. *Fall, Winter.*

291. Descriptive Marine Taxonomy. (3-4-5)

Sorting and classifying techniques for marine flora and fauna. Introduction to use of literature, keys, monographs, guides, and regional studies. Prerequisite: BIO 201. *Spring.*

292. Marine Instruments. (3-4-5)

Proper usage of equipment employed in collecting, biological, geological, and physical samples and data from marine and coastal environments; rigging techniques, maintenance, repair. Prerequisite: MBI 280. *Spring.*

293. Marine Analysis Techniques. (3-4-5)

Methodologies and techniques employed in analyzing marine environmental parameters (chemical, biological, geological and physical). Emphasis on analytical techniques employed in current ongoing marine environmental research. Prerequisite: CHE 104; Corequisite: MBI 292. *Spring.*

294. Biological Illustration and Photography. (3-4-5)

Photographic methods of illustrating specimens and preparing illustrations. Prerequisite: CHE 104. *Winter.*

332. Biostatistics. (3-0-3)

Introduction to statistics having special applications to biological data, experimental design, data analysis, and interpretation, population statistics, hypothesis testing, analysis of variance, significance testing. Prerequisite: MAT 108. *Winter.*

334. Marine Chemistry. (3-4-5)

Chemical composition and processes of seawater; sample collection and chemical analysis techniques; carbonate buffering system, biogeochemical cycles. Prerequisites: CHE 104, MBI 280. *Fall or Winter.*

382. Marine Invertebrate Zoology. (3-4-5)

Survey of the major marine invertebrate taxa emphasizing function and special adaptations to marine environments. Practical emphasis on collecting, preserving, sorting and classifying, especially local species. Prerequisite: MBI 215. *Fall.*

481. Biological Oceanography. (3-4-5)

Global-scale considerations of biological features and processes within oceanic environments including: marine biogeography, oceanographic nutrient cycles, food webs and energy flow, pelagic and abyssal zone community dynamics, oceanic food resources, plankton biology. Prerequisites: MBI 280, MBI 215. *Winter*.

484. Marine Ecology. (3-4-5)

Principles of ecology related specifically to marine and estuarine ecosystems. Recent contributions to theoretical and experimental population, community systems ecology from research in marine environments; quantitative ecology. Prerequisites: MBI 332, MBI 382. *Spring*.

485. Ichthyology. (3-4-5)

Taxonomy, physiology, morphology and natural history of fishes, emphasis on southeastern marine species. Prerequisite: MBI 215. *Spring*.

Honors Program

The Minority Access to Research Careers (MARC) Honors Undergraduate Research Training Program is a part of the School of Sciences and Technology. The Program is funded by National Institute of General Medical Sciences. One of the objectives of the Program is to increase the number of college graduates who can gain admission to a Ph.D. program in major field for eventual research in a health or biomedically related area. The program is interdisciplinary and is open to undergraduate majors in Biology, Chemistry, Mathematics and Physics.

DESCRIPTION OF COURSES

NATURAL SCIENCES (NAS)

***310. Biomedical Instrumentation. (3-4-5)**

A lecture and laboratory course in principles and application of spectrometry, various separation methods, radiotracer techniques. Computer software, etc. Prerequisite: Junior Standing. *Winter*.

***320. Research Methods. (3-4-5)**

A course dealing with methodology and interpretation of research results. A seminar based on a review of literature pertinent to anticipated research is an integral component of this course. Prerequisite: Junior Standing. *Spring*.

330. Microcomputer and its Applications. (3-4-5)

An introductory lecture/laboratory course designed to introduce students to microcomputer basics, language (BASIC), graphics, and interfacing. Prerequisite: Junior standing. *Summer*.

350. Biostatistics. (5-0-5)

This course is designed to give statistical tools relevant to biological and health sciences. Applications of statistics in the areas of clinical trials, health studies (epidemiology) and laboratory technology. The course will include analysis of vital statistics, graphing data, analysis of data collected in incidence studies and experimental studies. Biomedical package will be used for learning computing techniques. Prerequisite: MAT 217, Junior Standing. *Spring*.

410. Mathematic Modeling. (5-0-5)

The course will involve the basis for the use of mathematic model building. The student will be introduced to various kinds of models such as the theory of models for Linear Optimization, models involving chance, choice and competitions; graphs and models, growth model for epidemics; Markov chain models (single nerve cell); models for ecological and chemical systems; models involving calculus and differential equations. Prerequisite: MAT 213, Senior Standing. *Spring*.

420. Special Topics in Inorganic Chemistry. (3-0-3)

This course will include a general discussion of selected topics in Inorganic Chemistry such as chemical bonding, ligand field theory, coordinated complexes and chelates, molecular and crystal structure, dipole moments and properties of biologically important trace elements. Prerequisite: Senior Standing. *Fall*.

425. Principles and Methods of Toxicology (2-4-4)

Harmful actions of toxic substances on mammalian systems particularly on reproductive and developmental stages. Biological and health risks associated with chemical are stressed. Various test-systems for screening chemicals are also covered. Prerequisite: CHE 308. Senior Standing. *Fall*.

430. Biophysics. (3-0-3)

A selection of various topics of current interest in biophysics to include molecular spectroscopy and photobiology radioactivity and biological tracers, biological effects of ionizing radiation, properties of macromolecules, biophysical studies on nerves and muscles, and analog simulation and dynamical modeling of living systems. Prerequisite: Senior Standing. *Winter*.

**Required of all MARC RESEARCH TRAINEES.*

MEDICAL TECHNOLOGY

The main objective of this program is to provide three years of preclinical curriculum through the department of biology or chemistry. The preclinical curriculum includes 24 quarter hours of Biology, 24 quarter hours of Chemistry and a course in mathematics involving probability and statistics as required by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Courses in organic Chemistry, microbiology and immunology are required prior to admission into clinical internship during the Senior year. Selection into clinical program is highly competitive and not automatic. Many students complete the Bachelor of Science degree following the biology or chemistry curriculum before seeking clinical internship.

MEDICAL TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required		
English 107-108-109		15 hours
Humanities 232		5 hours
Area II—Math and Natural Sciences: 20 hours required		
Mathematics 107-108		10 hours
Physics 201-202		10 hours
Area III—Social Sciences: 20 hours required		
History 102-202 or 203		10 hours
Political Sciences 200		5 hours
Psychology 201		5 hours
Area IV—Courses Appropriate to Majors (29-30 Hours)		
Biology 128-200-201-202-203		9-15 hours
Chemistry 101-102-103-104		10-15 hours
Mathematics 217 (Statistics) or		
MBI 209 and MBI 332		5 hours

ADDITIONAL REQUIREMENTS

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 48 hours

Junior Year: Major Requirements: 38 hours

Biology 300-306-307-407	18 hours
Chemistry 303-307-308-404	20 hours
Specific Electives: 10 hours	
Biology 303-304 or	
Chemistry 303-305	10 hours

SENIOR YEAR: Clinical Internship: 48 hours

BIO 450-451-452-452 (Clinical Internship)	48 hours
(Fifty-two weeks of clinical internship in a NAACLS Accredited hospital laboratory are required. Students may register (tuition free) each quarter at Savannah State College during the internship period.)	

Those persons who are not accepted for clinical training may follow the biology or chemistry curriculum to complete degree requirements by taking the following courses:

Biology Requirements: 48 hours	
Humanities 141-142-143 or 151-152-153	15 hours
Physics 203	5 hours
Chemistry 331	5 hours
Biology 301-318-326-401-430-431	23 hours
Chemistry Requirements: 48 hours	
Elementary German 151-152-153	15 hours
Chemistry 309-401-402-403-405-406-408-415	23 hours
Electives	10 hours

DEPARTMENT OF CHEMISTRY

WILLIE G. TUCKER, Head

Jeffrey James
Manchery P. Menon

Kamalakar B. Raut
George N. Williams

Elizabeth Robinson, Sec.

Courses in Chemistry are designed to serve the following purposes: (1) to provide a thorough foundation in the general courses for students who seek an understanding of the methods and achievements of the chemist; (2) to provide the needed semispecialized preparation for students who are majoring in home economics and engineering technology; and (3) to provide preprofessional training for students who intend to study dentistry, medicine, other health professions, and for those who plan to enter graduate school.

The Department of Chemistry offers the usual general courses, a minor sequence, and courses leading to the degree of Bachelor of Science with a major in chemistry. The department also offers a Dual Degree Chemical Engineering Program whereby the student attends Savannah State College for approximately two academic years. (See Department of Engineering Technology, Dual Degree Program, page 170).

CHEMISTRY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Science: 20 hours required

Mathematics 107-108	10 hours
Biology 123-124	10 hours

Area III—Social Sciences: 20 hours required

History 101-102-202 or 203	15 hours
Political Science 200	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Chemistry 101-102-103	15 hours
Mathematics 109-212-213	15 hours

Additional Requirements:

Physical Education	6 hours
Intro. to Sciences & Technology	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 58 hours as specified

Chemistry 303-304-305-307-308-309	
401-402-403-404-405-406-408-415	53 hours
Chemistry 313-409-410	3 hours
Chemistry 311-307	2 hours

Specific Electives: 35 hours

Elementary German 151-152-153	15 hours
Humanities 233	5 hours
Physics 201-202	10 hours
Mathematics Elective	5 hours

General Elective	5 hours
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COMPREHENSIVE EXAMINATION

Senior Chemistry majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

DESCRIPTION OF COURSES

CHEMISTRY (CHE)

101. General Inorganic Chemistry. (4-3-5)

An introduction to the fundamental principles of chemistry with laboratory experiments designed to supplement class room lectures. *Fall, Winter, Summer.*

102. General Inorganic Chemistry. (4-3-5)

A continuation of Chemistry 101 that includes a broad and general discussion of the chemistry of metals and non-metals, study of the properties of solutions, chemical kinetics, coordination compounds and the properties of liquids and solids. Basic concepts of organic chemistry, nuclear chemistry and biochemistry are discussed. *Winter.*

103. General Inorganic Chemistry. (2-9-5)

Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. Prerequisite: CHE 101 or 102. *Spring.*

104. General Inorganic Chemistry. (2-9-5)

Designed for the biology major whose curriculum requires only two quarters of general chemistry. Treats certain topics of CHE 102 and CHE 103 dealing with the theory and methods of qualitative analysis. Prerequisite: CHE 101. *Winter, Spring.*

115. Chemical Calculations. (1-0-1)

An introduction to the use of mathematics in chemistry. *Spring.*

303. Analytical Chemistry. (3-6-5)

Theory and practice of volumetric methods of analysis involving the following titrations: precipitation, potentiometric acid-base, complexometric, non-aqueous and redox. Prerequisite: CHE 103 or 104. *Fall.*

304. Analytical Chemistry. (3-6-5)

Gravimetric methods of analysis involving quantitative separations by volatilization, qualitative precipitation, extraction, and chromatography. Prerequisite: CHE 103 or 104. *Winter.*

305. Instrumental Methods of Analysis. (2-6-4)

Covers the theory, techniques and methods of analysis using modern instruments. Potentiometric, conductometric, spectrophotometric (including infra-red), polarographic, and chromatographic methods of analysis are practiced in the laboratory. Prerequisites: CHE 303-304. *Spring*.

307. Organic Chemistry. (3-6-5)

Preparations, tests, and properties of carbon compounds. Aliphatic compounds are emphasized. Prerequisite: Ten quarter hours of college; chemistry. *Fall, Summer*.

308. Organic Chemistry. (3-6-5)

Continuation of Chemistry 307, with emphasis on aromatic and heterocyclic compounds. Prerequisite: CHE 307. *Winter*.

309. Qualitative Organic Analysis. (3-6-5)

Chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating and identifying them. Prerequisite: CHE 308. *Spring*.

331. Biophysical Chemistry. (4-3-5)

Designed for premedical students and students in biological sciences or related disciplines. General topics of discussion in the course are colligative properties of solutions, thermodynamics, rates and mechanism of enzyme-catalyzed reactions, colloids, and transport phenomena in liquids. Prerequisite: Junior Standing. *Winter*.

401. Physical Chemistry. (3-3-4)

Study of the behavior of gases, gas laws, kinetic theory of gases, thermochemistry, thermodynamics and homogeneous and heterogeneous chemical equilibria. Application of physical principles to the solution of chemical problems is highly emphasized. Prerequisite: MAT 231. *Fall*.

402. Physical Chemistry. (3-3-4)

A continuation of CHE 401 which includes such topics as properties of solutions, phase equilibria, electrochemistry and chemical kinetics. Prerequisite: CHE 401. *Winter*.

403. Physical Chemistry. (3-3-4)

A continuation of CHE 402 that deals with the properties of solids and liquids, atomic and molecular structure, quantum chemistry, chemical bonding and surface chemistry. Prerequisite: CHE 204. *Spring*.

404. Biochemistry. (3-6-5)

The chemistry of carbohydrates, lipids, proteins, mineral elements and water. Prerequisite: CHE 307. *Fall, Spring*.

405. Biochemistry. (3-0-3)

Chemistry of vitamins, enzymes, hormones and mechanisms of digestion and animal and plant metabolism will be studied. Prerequisite: CHE 404. *Winter*.

406. Biochemical Preparations. (0-3-1)

Isolation and identification of compounds from natural products and synthesis of compounds with possible biochemical importance. Prerequisite: CHE 404. *Fall, Spring*.

311-407. Introduction to Research in Chemistry. (0-3-1)

Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. Prerequisites: Junior Standing in chemistry and consent of the staff. *Fall, Winter, Spring.*

312-408. Chemical Seminar. (1-0-1)

Modern development in specific subdivisions of the field of chemistry are considered. Prerequisite: Junior or Senior Standing. *Fall, Winter, Spring.*

313-490-410. Organic Preparations. (0-3-1)

Preparations involving selected syntheses and name reactions. Prerequisite: CHE 308. *Fall, Winter, Spring.*

411. Radioisotope Technology. (3-3-4)

Provides a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also includes a study of the many applications of radioisotopes in chemistry, biology, geology, etc. Prerequisite: Junior Standing in the major field. *Winter.*

415. Chemical Literature. (1-0-1)

Involves the use of the library in general and the procedures to obtain chemical information in particular by referring to abstracts and journals. *Spring.*

420. Special Topics in Inorganic Chemistry. (3-0-3)

This course will include a general discussion of selected topics in Inorganic Chemistry such as chemical bonding, ligand field theory, coordinated complexes and chelates, molecular and crystal structure, dipole moments and properties of biologically important trace elements. Prerequisite: Senior Standing and the consent of the instructor. *Fall.*

MINOR IN FORENSIC SCIENCE: 29 quarter hours

Forensic Science	Quarter Hours
CHE 361.....	5
CHE 362.....	5
CHE 363.....	5
CHE 461.....	5
CHE 462.....	5
CHE 463.....	4

DESCRIPTION OF COURSES

FORENSIC SCIENCE

361. Forensic Evidence in Law Enforcement. (5-0-5)

Principles of criminal law and procedure, preparation and presentation of evidence, examination of witnesses, and methods of legal research. Emphasis will be placed on court opinions defining the rules of search and seizure and admissibility of evidence.

362. Principles of Forensic Science I. (4-2-5)

Examination of firearm and toolmark examination, document examination, pathology, serology, and anthropology. One laboratory exercise.

363. Personal Identification. (4-2-5)

Methods of personal identification based on sketches, finger prints, voice-print, odontology and psychosocial profiles. One laboratory exercise.

461. Principles of Forensic Sciences II. (4-2-5)

Examination of arson accelerant, drugs, glass, hairs, plastics, paints and textile fibers. One laboratory exercise.

462 Drugs of Abuse. (5-0-5)

Chemical, pharmacological, toxicological, and Pathological characteristics of commonly abused drugs, including ethanol, barbiturates, narcotics stimulants, and hallucinogens.

463. Forensic Science Internship. (0-0-4)

Internship experience in a forensic science laboratory or criminal justice agency under the supervision of a faculty member.

DEPARTMENT OF MATHEMATICS, PHYSICS AND COMPUTER SCIENCE TECHNOLOGY

KAILASH CHANDRA, Head

Venkataraman Ananthanarayanan

Ijaz A. Awan

Jacquelyn M. Byers

Jacob Engelhardt

Gian Ghuman

Prince A. Jackson

Dorothy D. Murchison

Henry Tramer

Greta Blake, Secretary

The Department of Mathematics, Physics and Computer Science Technology offers courses leading to the baccalaureate degree in three areas: Mathematics, Physics, and Computer Science Technology and a double major in mathematics and physics, and mathematics and any area of technical sciences. Minor programs in mathematics, physics, earth sciences, and computer science are available. The Department promotes an extensive interdisciplinary approach that would provide students a sound educational background that would make the students quite marketable and thus prepared for gainful employment, or prepared to pursue successfully courses in graduate study.

The main objectives of the Department of Mathematics, Physics, and Computer Science Technology are: (1) to offer to all students an opportunity for acquiring the mathematical, physical, statistical, and computer science basic skills and knowledge which are needed for successful living, together with an appreciation of the contributions of these sciences to the development of human progress; (2) to provide students in the natural, environmental, and engineering sciences with insights into physical laws, with analytical and logical thinking, and with the mathematical and computer tools essential in the various fields of the sciences; (3) to provide computer and statistical skills to students in the social sciences, business administration, and other areas; and (4) to provide advanced training in the programs of the Department to those planning graduate study in the sciences.

Plan of Study

FRESHMAN MATHEMATICS

Entering freshman students whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test (SAT) meet the requirements of regular admission are placed in Mathematics 107, 108 or 212 depending on background of student.

Applicants for admission whose SAT scores do not meet the requirements for regular admission must take the Basic Skills Examination (BSE) in English, Reading, and Mathematics. On the basis of their achievement on the Mathematics Tests, these students are assigned to Mathematics 107 or to a Mathematics course in the Developmental Studies Department.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Mathematics, Physics and Computer Science Technology is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).
2. Senior Mathematics, Physics and Computer Science Technology majors are required to take the Graduate Record Examination (Area and Aptitude Tests) as the comprehensive examination in their field.

EXEMPTION EXAMINATION

A student may be exempted without credit hours from MAT 107, 108, and/or 109 provided the student passes a departmental exemption examination.

IMPORTANT INFORMATION

Any student who has passed either MAT 212, 213, or 214 with a minimum grade of C will not receive credit hours for 100-level mathematics courses taken subsequently to the 212, 213, or 214 courses.

All prerequisite courses must be passed with a "C" or better.

BACCALAUREATE DEGREE PROGRAMS

MATHEMATICS

The curriculum in Mathematics is designed for those students who are interested in careers in mathematics or related fields after graduation in industry/government or in pursuing an advanced degree in mathematics, pure or applied.

PHYSICS

The Physics curriculum provides instructions that will motivate interested students to pursue a professional career in physics or an immediately adjacent field or pursue careers in medicine, business administration, oceanography, industry, military service, and computer technology.

COMPUTER SCIENCE TECHNOLOGY

The curriculum in Computer Science Technology is designed for those students who are interested in careers in computer science. This program is flexible enough so that students may orient the major emphasis toward the software aspect of computer science or to the hardware realm of computer science.

DUAL DEGREE PROGRAM

In cooperation with the Georgia Institute of Technology, a Dual Degree Program is offered, whereby undergraduate students can attend Savannah State for approximately three years and then attend the Institute for approximately two years. Upon completion of the program the student will receive baccalaureate

degrees from both institutions. More details on this program are listed in the engineering technology section of the catalog.

CURRICULUM FOR MAJOR IN MATHEMATICS

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Science: 20 hours required

Mathematics 108-109	10 hours
Physics 201-202	10 hours

Area III—Social Sciences: 20 hours required

History 101	5 hours
History 202 or 203	5 hours
Psychology 201	5 hours
Political Science 200	5 hours

Area IV—Courses Appropriate to the Major: 30 hours

Computer Science 125-126	5 hours
Mathematic 212-213-214	15 hours
Physics 203	5 hours
Economics 201	5 hours

Additional Requirements: 9 hours

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 45 hours as specified

Mathematics 315-316-318-319-404-411	30 hours
Selected upper level mathematics courses	15 hours

Minor Requirement: 30 hours as specified

Specific or Recommended Electives	25 hours
Humanities 233	5 hours
Modern Languages	15 hours
Elective	5 hours
(Excluding 100 level mathematics courses)	

CURRICULUM FOR MAJOR IN PHYSICS

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required	
Mathematics 107-108	10 hours
Chemistry 101-102 or	10 hours
Biology 123-124	
Area III—Social Sciences: 20 hours required	
History 101-102	10 hours
Political Science 200	5 hours
History 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
Physics 206-207-208	15 hours
Mathematics 109-212-213	15 hours
Additional Requirements: 9 hours as specified	
Physical Education	6 hours
General Education	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 103 quarter hours	
Major Requirements: 47 hours as specified	
Physics 300-305-306-307-308-310-312-411-412-413-414-470-480-499	
Required Related Courses: 56 hours	
Mathematics 214-404	10 hours
Computer Science 150	5 hours
Physics 313	5 hours
Minor Requirements: 25 hours as specified	
Electives	11 hours
(Select upper level courses in major, minor or related courses.)	

CURRICULUM FOR MAJOR IN COMPUTER SCIENCE TECHNOLOGY

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours	
Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
Mathematics 108-109	10 hours
Physics 201-202	10 hours

Area III—Social Sciences: 20 hours required

History 101 or 102	5 hours
Psychology 201 or Economics 200	5 hours
Political Science 200	5 hours
History 202 or 203	5 hours

Area IV—Courses Appropriate to Major: 30 hours required

*Computer Science 125	3 hours
*Computer Science 126	2 hours
*Computer Science 215	5 hours
Mathematics 212-213	10 hours
Electronics 201 and 202	10 hours

Additional Requirements: 9 hours as specified

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 67 hours as specified

Mathematics 214-318	10 hours
Computer Science 150-406-362-400	20 hours
Electronic Engineering Technology 103-311-322-323	19 hours
Engineering Technology 223-300	4 hours
Computer Technology 203-411-412-413	14 hours

Restrictive Electives from the following courses: 20 quarter hours

CSC 230, CSC 250, CSC 313, CSC 360, CSC 380, CSC 415,
EET 301, EET 302, EET 400, ENT 101, ENT 102, ENT
202, ENT 302, MAT 319, MAT 404, MAT 333, MAT
413, MET 222, MET 423, PHY 203, PHY 310

General Electives: 10 hours (excluding 100 level mathematics courses) consult your advisor.

**Effective September 1986, students will be required to take CSC 215 (Principles of Computer Programming-PASCAL I) and CSC 216 (Principles of Computer Programming-PASCAL II) in place of CSC 125, CSC 126 and CSC 215.*

CURRICULUM FOR DOUBLE MAJOR IN MATHEMATICS

Requirements:

1. A Complete Major in Another Area

2. Required Mathematics Courses: 60 quarter hours

Mathematics 212-213-214-315-316-318-319-404-411	45 hours
Additional Mathematics Courses	15 hours
(Select from 300-400 level Mathematics Courses.)	

CURRICULUM FOR MINORS

Mathematics Minor: 29 quarter hours

Mathematics 212-213-214-411	20 hours
Mathematics Electives	9 hours
(Select from Mathematics 300-400 level courses, excluding 420-498-499.)	

Physics Minor: 30 quarter hours

Physics 201-202-203	15 hours
Physics 410	5 hours
Physics Electives	10 hours
(Select from Physics 300-400 level courses)	

*Computer Science: 30 quarter hours

Computer Science 125-126-150-215-250	20 hours
Computer Science Electives	10 hours
(Select from Computer Science 300-400 level courses)	

**Mathematics majors are required to take CSC 216 instead of CSC 125, 126.*

Computer science minor for student with major in business: 30 hours

Computer Science 125-126-164-270-306-360-361: 30 hours

Computer Science Minor for Students with Other Major: 35 hours

Mathematics 108	5 hours
Computer Science 125-126-150-215	15 hours
Computer Science Electives	15 hours
(Select from Computer Science 200-400 level courses)	

Earth Science Minor: 29 hours

Physical Science 204	5 hours
Geology 300-304-408-440	17 hours
Restricted Electives	7 hours
(Select from Earth Science 223-320-420-425-499 or Geology 310-410-430 or ENS 301.)	

DESCRIPTION OF COURSES

MATHEMATICS (MAT)

107. College Algebra. (5-0-5)

This course presents certain topics of intermediate algebra in a form that will prepare students for a later study of trigonometry as well as to prepare all students for successful management of their present and future daily mathematical needs. Topics included are: The Real Number System, Functions and Polynomials and Inequalities (first and second degree), Systems of Equations, and Operations with Exponential Numbers (including radicals). *Fall, Winter, Spring.*

108. College Algebra and Trigonometry. (5-0-5)

Functions and transformations, exponential and logarithmic functions, circular functions, trigonometric functions of angles or rotations, trigonometric identities, inverse functions, and equations, triangles, vectors, and applications, and complex numbers. Prerequisite: MAT 107 (minimum grade C). *Fall, Winter, Spring.*

109. Plane Analytic Geometry. (5-0-5)

Elementary concepts of plane analytic geometry; straight lines, the four conics, curve sketching, translations, rotations, other curves, parametric equations. Prerequisite: MAT 108 (minimum grade C). *Fall, Winter, Spring.*

110. Mathematics for Business Students. (5-0-5)

This course is designed to meet the mathematical needs of business students who have completed the general education mathematics sequence. The course is designed to review and supplement knowledge gained in MAT 107. There is ample review, in the course, of such concepts as functions, domain and range, relations, systems of equations, exponents, radicals, and logarithms, simple and compound interest, and matrices. There is also an elementary introduction to techniques of differentiation and integration. Prerequisite: MAT 107 (minimum grade C). *Fall, Winter, Spring.*

212. Analysis I. (5-0-5)

(Analytic Geometry and Differential Calculus) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. Prerequisite: MAT 108. *Fall, Winter, Spring.*

213. Analysis II. (5-0-5)

(Analytic Geometry and Integral Calculus) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. Prerequisite: MAT 212. *Fall, Winter, Spring.*

214. Analysis III. (5-0-5)

Further applications of integrals, improper integrals, L'Hospital's Rule, sequences, limits; series, convergence tests, Taylor series, power series. Prerequisites: MAT 213. *Spring.*

217. Introduction to Probability and Statistics. (5-0-5)

Mean, median, mode, range, variance and standard deviation of raw and grouped data; probabilities; correlations; the normal distribution; the t-distribution; statistical inference, including the pooled t-test, the one-way and two-way analysis of variance, the chi-square test. Non-parametric statistics including the Wilcoxon matched pairs signed pairs ranks test; other tests. Prerequisite: MAT 107. *Winter.*

311. Mathematics of Finance. (5-0-5)

Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns.

315. Modern Algebra I. (5-0-5)

An introduction to modern algebraic systems and to proof-making. Functions, relations, binary operations, rings, subrings, homomorphisms, integral domains, with emphasis on divisibility properties of the integers and the integers mod n . Prerequisite: MAT 213. *Fall*.

316. Modern Algebra II. (5-0-5)

Further topics in modern algebra. Fields; properties of the rational numbers, the real numbers, and the complex numbers; groups; polynomial rings; roots of polynomials. Prerequisite: MAT 315. *Winter*.

318. Advanced Probability. (5-0-5)

Probability spaces, game theory, random variables, expected value, random sampling, correlation, and regression. Prerequisite: MAT 213. *Spring*.

319. Linear Algebra. (5-0-5)

Matrix algebra, solutions of linear systems using row operations, vector spaces, examples of vector spaces, linear independence, spanning sets, bases, ranks, determinants, matrix inversion, linear transformations, null space and range. Prerequisite: MAT 213.

320. Theory of Equations. (5-0-5)

Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants—systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra. Prerequisite: MAT 213.

321. Introduction to Higher Geometry. (5-0-5)

Designed to give a modern view of geometry, including a critical study of Euclidean geometry treated from an axiomatic viewpoint, as well as the study of non-Euclidean systems. Prerequisite: MAT 213. *Winter (even years)*.

333. Symbolic Logic.

This course presents the standard notations, methods and principles of symbolic logic for use in determining the validity or invalidity of arguments. It presents the standard methods of truth tables, Boolean expansions, sets, Euclidean geometry, logistic systems, and symbolic notation used in distinguishing correct (good) from incorrect (bad) arguments. Prerequisite: MAT 213.

404. Differential Equations. (5-0-5)

Differential equations—orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order with constant coefficients; compound interest law; applications to problems in mechanics; series solutions to differential equations. Prerequisite: MAT 214. *Winter*.

409. General Point Set Topology. (5-0-5)

Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves, partitionable spaces, and the axiom of choice. Prerequisite: MAT 214.

410. Introduction to Real Variable Theory. (5-0-5)

This course is designed to provide experiences in the Theory of Dedekind cuts, the existency of g.l.b. and l.u.b., sequences of numbers, and various theorems. Topics include numbers and convergence topological preliminaries, limits, continuity and differential ability, the Riemann Integral, sequences and series, functions of several real variables. Prerequisite: MAT 214.

411. Advanced Calculus. (5-0-5)

Vectors, lines, planes, vector calculus, functions of several variables, limits and continuity, partial derivatives and gradients, applications of gradients, double and triple integrals, line integrals. Prerequisite: MAT 214. *Fall*.

413. Numerical Analysis. (5-0-5)

Topics to be selected from: solving of linear equations: Gauss-Seidel and Jacobi methods; error analysis; approximating functions by infinite series; iteration techniques, techniques of integration, to include trapezodial and Simpson's rules. Prerequisites: MAT 213, and CSC 150. *Fall (even years)*.

420. History of Mathematics. (3-0-3)

The history of mathematics from earliest time through the development of calculus, with mathematical problems from many of the periods and cultures. Prerequisite: MAT 214. *Spring (odd years)*.

498. Newtonian Seminar. (2-0-2)

This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and Seniors. Prerequisite: MAT 214. *Fall, Winter, Spring*.

499. Mathematical Research.

This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. *Fall, Winter, Spring*. Credit, one to three quarter hours.

PHYSICS (PHY)

200. Physics Calculations. (2-0-2)

This course is intended to assist the students in putting verbal considerations into mathematical form for solution, to show how computations may be made, to show the forms of presentation of answers used in Science, and to enable him to present an answer with the probable error in determination. The sessions will be devoted among other things to graph plotting, use of mathematical table, and drill in problem solving involving such mathematical operations in which the student may lack proficiency. (Required if students show poor background in computational skills.) *Fall*.

201. General Physics. (3-4-5)

An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Students enrolled in this course should have command of algebra and trigonometry. Prerequisite: MAT 107. *Fall*.

202. General Physics. (3-4-5)

Wave phenomena as sound and light are investigated. Prerequisite: PHY 201. *Winter.*

203. General Physics. (3-4-5)

Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: PHY 201. *Spring.*

206. Mechanics and Heat. (3-4-5)

This is a first of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in physics. It deals with topics in Mechanics and Heat, using calculus, and involving derivation and problem solving approach. Prerequisites: Math 213. *Fall.*

207. Sound and Optics. (3-4-5)

This is the second of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in physics. It deals with topics in optics and sound, using calculus, and involving derivation and problem solving approach. Prerequisites: PHY 206. *Winter.*

208. Magnetism, Electricity and Modern Physics. (3-4-5)

This is the last of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in Physics. It deals with topics in Electricity, Magnetism and Modern Physics, using calculus, and involving derivation and problem solving approach. Prerequisites: PHY 207. *Spring.*

300. Numerical Solutions of Physics Problems. (3-0-3)

Solutions of physics problems of advanced nature will be discussed. Computer calculations will be used as tools. *Fall.*

301. History of Physical Sciences. (3-0-3)

A brief history of the development of expt. and theoretical ideas in Physical Sciences from ancient to modern time will be presented. Biographies of inventors in physics will be studied as well as some historically interesting experiments will be discussed. *Fall.* (Even Year)

302. Energy and Pollution. (3-0-3)

Physical aspects of human use of energy and accompanying changes in the environment, nature and sources of the energy, environmental crisis and possible solutions will be discussed. The theory of energy generation by stars, the green house effect of the earth's atmosphere, solar energy detectors, solar cells and solar furnaces will be discussed. *Winter.* (Odd Year)

305. Introduction to Classical Mechanics. (4-0-4)

This course is designed to provide the students with a background in the following areas: Kinematics, dynamics of a particle, Newton's laws and their application, momentum and energy, rotations, relativistic mechanics and properties of matter. Prerequisite: MATH 213, PHYS 201. *Winter.*

306. Heat and Thermodynamics. (4-0-4)

Mathematical background and preparation, equations of state, ideal and real gases, kinetic theory of gases—temperature and temperature scales, heat capacity and calorimetry, work, Laws of Thermodynamics—the enthalpy function and thermochemistry, Joule-Thomas experiment, entropy functions—free energy—phase rule, etc. Prerequisite: MATH 213, PHYS 201 or 206. *Fall.*

307. Optics. (4-0-4)

Advanced topics in optics in continuation to PHY 207 (PHYS 202) will be discussed. Prerequisite: PHYS 202 or 207 and MATH 213. *Winter*.

308. Electricity and Magnetism. (4-0-4)

Advanced topics in electricity and magnetism in continuation to phys. will be discussed. Prerequisite: PHYS 208 or PHY 203 and MAT 213. *Spring*.

310. Mathematical Physics. (5-0-5)

Designed to develop an understanding of the concrete relationship between mathematical factors that contribute to various physical phenomena; qualitative and quantitative relationships. Prerequisites: MATH 213 and PHYS 208 or PHY 203 and MAT 213. *Winter*.

312. Introduction to Electronics. (2-4-4)

Testing basic components of electronic circuits—tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc.; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes, tube testers, field strength meters, etc. Prerequisite: PHY 208/203. *Fall*.

313. Integrated Circuits. (3-4-5)

Principle of digital and analog circuits and their application in logic circuits and instrumentation. Prerequisite: PHY 208/203. *Winter*.

340. Elements of Astrophysics. (3-2-4)

This course is related with astronomy and astro-physical topics: Solar system, meteors, asteroids, comets, clusters, stars, nebulae, Kepler's Law of Gravitation, astronomical instruments, celestial mechanics, central forces, potentials and attraction of bodies, binary star systems, orbits, perturbation and problems of satellites, internal production of chemical elements, re-entry physics and elements of space flight dynamics. Prerequisites: PHY 207 (preferred), MATH 213, PHY 202 (required). *Spring*.

401. Advanced Mechanics. (4-0-4)

A brief survey of space and time, Newton's laws, concepts of mass and force, external forces, linear motion, conservative forces, the laws of conservation of energy and impulsive forces is done. The problem of harmonic oscillation, moments, angular momentum, polar coordinates, generalized coordinates, the calculus of variations, Hamilton's principle. Lagrange's equations, Hamilton's equation, Small oscillations and normal modes, dynamics of rigid body and theory of relativity is discussed in detail. Prerequisite: PHYS 305. *Winter*.

410. Modern Physics. (5-0-5)

Recent advances in atomic and nuclear physics. Prerequisites: MAT 213 and at least one advanced physics course of four or more quarter hours. *Spring*.

411. Introduction to Elements of Quantum Mechanics. (3-0-3)

A short history of the beginning of quantum theory, the old quantum theory: Wilson Sommerfield quantization rules, DeBroglie matter waves, Schrodinger's waves equation, eigen values, and eigen functions, the conservation of probability density, solutions of one-dimensional problems. Postulates of quantum mechanics, measurements of compatible observables, linear vector spaces. Schmidt orthogonalization procedure, linear transformation, Dirac bar-ket notation, matrix representation of linear operator, the matrix form of eigen value problem, unitary transformations diagonalization of matrices, application of matrix mechanics, harmonic oscillator. Prerequisite: PHYS 305. *Fall*.

412. Introduction to Solid State Physics. (3-0-3)

A course dealing with elastic, electrical, magnetic, and thermal properties of solids; deals with crystal structure, space groups and crystal classes, crystal imperfections, crystal binding, elastic constants, phonons and lattice vibrations, thermal properties of solids, elements of free electron theory, metals and semiconductors, super conductivity, properties of dielectrics, magnetic phenomenon in solids, electrical and thermal transports, photoelectric effect and band theory. Prerequisites: PHYS 306 and PHYS 308. *Winter.*

413. Elements of Spectroscopy. (3-0-3)

An introduction to elements of atomic and molecular spectroscopy will be given. Prerequisite: PHYS 307. *Spring.*

414. Nuclear Physics and Radioactivity. (4-0-4)

Recent advances in nuclear physics. Prerequisites: MATH 213 and at least one advanced physics of four or more quarter hours. *Spring.*

470. Advanced Lab I. (0-4-2)

Selected experiments in advanced topics will be done. Prerequisites: At least 16 quarter hours of 300 level or more of the physics courses. *Fall.*

480. Advanced Lab II. (0-4-2)

Work related to Advanced Lab I will be continued. Prerequisites: At least 16 quarter hours of 300 level or more of the physics courses. *Winter.*

499. Introduction to Research in Physics. (3-0-3)

The student will be introduced to the techniques and procedures used in Physics research problems and initiated in the examination of literature. Prerequisite: Junior standing in Mathematics and Physics and consent of the instructor. At least one 300 or 400 level Physics course must have been completed. *Spring.*

COMPUTER SCIENCE (CSC)

125. Introduction to Computer Science. (3-0-3)

A study of the background and basic concepts of the computer and its use. An introduction to the fundamentals of programming in BASIC via the terminal, and an introduction to the creation and manipulation of files. Prerequisite: MAT 107. *Fall, Winter, Spring.*

126. Computers in Society. (2-0-2)

No mathematical background required. An introduction to the history and evolution of the computer, and to the use of the computer in helping man to solve problems. A consideration of some of the ways in which the computer influences social organizations and individuals. *Fall, Winter, Spring.*

150. Computer Programming in a Numerical Language I. (5-0-5)

An introduction to the FORTRAN programming language and its applications in problem solving. Prerequisite: MAT 108.

164. Computer Programming in RPG. (5-0-5)

An introduction to the programming language RPG. Topics to include RPG, specification forms, comparing, branching, control breaks, multiple record types, arrays, and random access concepts.

210. Computer Methods for Humanistic Problems. (5-0-5)

No mathematical or scientific background presumed. An introduction to elementary digital programming in an appropriate language with emphasis on utilizing existing “library” programs to solve problems arising in the humanities and social sciences. The class is divided into interest groups from all areas of the humanities and social sciences, with each group solving problems related to its discipline. Prerequisite: CSC 126.

215. Principles of Computer Programming—PASCAL I. (5-0-5)

An introduction to the principles of computer programming, using Pascal language, with emphasis on problem-solving methods which lead to the construction of correct, well-structured programs. The topics include an introduction to data representation, data types and control structures, procedures and functions, and programming methodology. Prerequisite: MAT 107.

216. Principles of Computer Programming II—PASCAL. (5-0-5)

An introduction to advanced concepts covered in CSC 215: Recursive programming techniques, Data structures, pointers, linked list, queues, stacks, files, strings and trees. Prerequisite: CSC 215. *Winter*.

230. Discrete Mathematics. (5-0-5)

Switching circuit and design, K-maps, Boolean algebras, sets, relations. permutations and combinations, searching and sorting and graph theory. Prerequisite: CSC 150/CSC 215.

250. Computer Programming in Numerical Language II. (5-0-5)

Extension of subject matter covered in CSC 150 to include subprograms and arrays. Scientific Packages are introduced and used. Computer concepts are used to solve problems arising in the various scientific disciplines. Prerequisite: CSC 150. *Spring*.

270. Simulation and Computational Statistics. (5-0-5)

The computer will be used as a tool to implement various probabilistic and statistical concepts to include an introduction to simulation techniques. Prerequisite: CSC 150. *Spring*.

303. Methods and Models. (5-0-5)

Mathematical concepts, notations, and methods commonly used in the social and behavioral sciences, with emphasis on real problem solving. This course is an analogue to MAT 210, except that the emphasis is upon the student creating his own programs to solve specific problems. This should be considered a course for juniors or seniors. Prerequisite: CSC 150.

360. Computer Programming in a Business Language I. (5-0-5)

An introduction to the COBOL programming language and its applications to problem solving. This course is designed for business-oriented students, and applications will be in the areas of business and administrative data processing. Prerequisite: MAT 110.

361. Computer Programming in a Business Language II. (5-5-5)

Extension of the subject matter covered in CSC 360, to include creation and processing of data files on a random access device. Prerequisite: CSC 360.

362. Computer Programming in a Machine Language. (5-0-5)

Basic assembler language programming and machine-level representation of instructions and data. Topics include interrupts, control flow of a program, I/O operations, macros and symbolic programming. Prerequisites: CSC 150 or 361.

365. Computer Systems. (5-0-5)

A study of its relationship between the hardware and software components in a computer system. Topics include total system structure, control, storage, processing, and methods of input/output. Prerequisite: CSC 150.

370. Science and Engineering Mathematics. (5-0-5)

A study of computer-generated solutions to problems arising in the technical and physical sciences. Topics include: sequences; functions and derivatives; differential equations, logarithms and exponential functions. Prerequisite: MAT 212 or CSC 150.

380. Linear Programming. (5-0-5)

A consideration of various optimization problems from the field of business and finance that have Linear Programming formulations; emphasis is on computer techniques for solving these problems. Prerequisite: CSC 150/CSC 215. *Fall (odd years).*

395-396-397. Internship in Computer Science. (1-13-5)

Work and Study Experience in the Various Areas of Computer Science. Prerequisite: CSC 400 and Junior or Senior status.

400. Data Structures and Organization. (5-0-5)

Logical Data structures and their machine representation. Structures to include list, trees, arrays and graphs. Prerequisite: CSC 216.

406. Data and File Management. (5-0-5)

This course is designed to introduce students to the various types of files that are in use such as VSAM, BDAM, and ISAM. File access methods and techniques discussed in relation to the desired applications to be achieved. In addition, the techniques of blocking, de-blocking, record formatting, and choice of appropriate storage media are covered. Prerequisite: CSC 400.

413/MAT 413. Numerical Analysis. (5-0-5)

Basic concepts of floating points. Use of mathematical subroutine packages, approximation, numerical integration and differentiation, solution of non-linear equations, solution ordinary differential equations. Prerequisite: CSC 150, MAT 213.

415. An Introduction to Data Base Systems. (5-0-5)

Topics to include data models, the relational approach. An in-house system will be studied in depth. Prerequisite: CSC 406.

EARTH SCIENCE (ESC)**221. Earth Sciences. (3-4-5)**

Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Prerequisite: Advanced standing and some knowledge of Physics and Chemistry. (May be used to satisfy elective units in general science, general education and teacher education.)

223. Astronomy and Space Science. (3-4-5)

Historical development of astronomy; the tools and methods of the astronomer; the earth, the moon and the solar system. Stellar systems, galaxies and cosmology. History of space exploration, space flight and earth's environment. Space propulsion systems, life-support systems, and space application. *Spring*.

320. Introduction to Meteorology. (3-4-5)

The atmosphere, its composition and density. Heating of land and water; air in motion and its circulation patterns. Role of atmospheric temperature, pressure and humidity distribution; fog and clouds. Thunderstorms, tornadoes and hurricanes. Prerequisite: PHY 202-202. *Fall*.

420. Weather and Climate. (3-4-5)

Why winds blow. Moisture in the atmosphere. Radiation; stability. Winds and pressure. The general circulation. Weather maps. Extratropical cyclones and waves. Interrelationships among the physical processes of weather. Weather and man. Climatic change. Prerequisite: ESC 320. *Winter*.

425. Interactions of Global Environment. (3-2-4)

Man's activities affecting the equilibrium of atmosphere, hydrosphere, biosphere, and lithosphere. Discussion of natural cycles such as the energy cycle; the water cycle; the carbon cycle; the oxygen cycle; the nitrogen cycle, the sulfur cycle and the phosphorus cycle. Preservation of man's health environment. Prerequisite: CHE 101-102 and GEO 300 or equivalent.

490. Special Problems in Earth Sciences. (0-6-2)

Study of literature, laboratory or field investigation of a selected topic and presentation of a written report or a seminar. Prerequisite: Junior or Senior Standing.

499. Research in Earth Sciences. (0-6-2)

Laboratory and field investigation of a selected research problem and preparation of a written report. Prerequisite: Junior or Senior Standing.

GEOLOGY (GEO)

300. Principles of Geology. (3-4-5)

Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps and historical aspects of geology. (May be used as elective units in Civil Technology, Naval Science, and Teacher Education). *Fall, and or Winter quarter*.

310. Mineral Resources. (3-0-3)

A study of formation of various minerals in the earth's environment and mineral deposits. Minerals in relation to soil development, nutrient availability, and topography.

400. Stratigraphy. (3-4-5)

Description and genesis of stratified sedimentary rock units and the tectonic setting. Principles of geologic mapping. Prerequisite: GEO 300.

404. Marine and Environmental Geology. (3-4-5)

Geophysical techniques for exploration of the sea floor. Pelagic and Abyssal plain sediments. Igneous rocks and the structure of the ocean basins. Polar wandering and continental drift. Earth processes. Engineering properties of rocks and soils. Earth resources. Geologic consequences of industrialization. Conservation of Management. Prerequisite: GEO 300. *Winter*.

406. Structural Geology. (2-2-3)

Introductory description of the structural features of rock and their analysis. Deformation of the earth's crust during tectonic and metamorphic activity. Prerequisite: GEO 300 or equivalent.

408. Geomorphology. (2-2-3)

Sculpture of the earth's surface by natural processes. Weathering sequence, erosion and development of soil profile. Surficial processes and the evolution of land forms. Prerequisite: GEO 300 and/or GEO 406.

410. Petrology and Petrography. (3-4-5)

Composition, distribution and origin of rocks. Laboratory examination of common igneous, sedimentary and metamorphic rocks; use of petrographic microscope, study of metamorphic zoning, and physical and mineralogical analysis of sediments. Prerequisite: GEO 300.

430. Introduction to Geophysics. (3-2-4)

Origin of the earth and solar system. Earth's interior and its physical parameters. Geochronology. Heat flow, seismicity, gravity field, magnetic field, and paleo-magnetism. Physics of the upper atmosphere. Continental drift. Prerequisite: PHY 202 and GEO 300.

440. Introduction to Geochemistry. (3-2-4)

Chemical principles of geologic processes. Origin and distribution of chemical elements and isotopes in the earth, its water and atmosphere. Age of the earth and crustal evolution. Phase transformations at pressures and temperatures found in the earth's interior and the surface. Prerequisite: CHE 102-102 and GEO 300. *Spring*.

PHYSICAL SCIENCE (PHS)

203. Physical Science. (3-4-5)

This course is designed to furnish the student with a knowledge of scientific facts and scientific laws pertaining to the physical universe.

204. Physical Geography. (3-4-5)

The Earth in Space, its form, the geographic grid, and map projections. Atmosphere, oceans, ocean tides, and the eclipses, climate, soils and vegetation. Temperature; latitude; heat budget of the earth. The earth's crust and its relief forms.

DEPARTMENT OF ENGINEERING TECHNOLOGY

LESTER B. JOHNSON, JR., Head

Sylvester Chukwukere
Clyde W. Hall
Kendall Hill
Rex C. Ma
John L. Mason

Fred F. Moser
Pravin K. Raut
Raymond D. Schlueter
Asad Yousuf
Thomas Lamberton,
Technician

Delores Williams, Secretary

The Department of Engineering Technology offers courses leading to the degree of Bachelor of Science, with majors in Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology and Process Engineering Technology; and to the degree of Associate of Applied Science with majors in Chemical Engineering Technology, Civil Technology, Computer Technology, Drafting and Design Technology, Electronics Technology and Mechanical Technology. The civil, electronics and mechanical engineering technology curricula are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

The ultimate objective of the Engineering Technology program is to provide the student with an educational experience that will allow him to succeed as an engineering technologist. This involves keeping the student interested and providing opportunity for him to become skillful in his assimilation of information and techniques. When students leave the institution they are aware of, and have fixed firmly in their minds, the potential of which they are capable.

Engineering technology embraces the physical sciences, mathematics, and the practices and materials of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, process systems, communication systems, and products needed to maintain a highly technical society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using tests to provide data for rational solutions and designs. These tests are followed by interpretations of data and preparation of appropriate plans for use by skilled craftsmen who produce the devices and/or products.

All students majoring in Engineering Technology are required to have an engineering drawing kit which they should bring with them or be prepared to purchase upon enrollment.

REGISTRATION FOR PROFESSIONAL ENGINEER

To protect public safety each state establishes laws to license engineers involved in projects affecting public health, safety and life. The registration process involves written examination, professional work experience and professional recommendations.

Although it is not the goal of Savannah State College to offer programs to prepare an individual to become a registered engineer, it is possible for an

engineering technology graduate to become registered in Georgia and some other states. The requirements for registration as a professional engineer vary from state to state with some states not allowing engineering technology graduates to become registered. Students considering registration as a professional engineer should contact the faculty advisor for further information.

Cooperative Education Program

The Cooperative Education Program is available to students of this department. The program enables students to gain work experience in industry as paid employees during their college tenure. The program is coordinated through the Office of Cooperative Education. The program is available to students who have acquired at least 46 quarter hours, including at least five courses in the major; have a satisfactory academic record; and meet the job specifications of the employer.

Students work in industry and attend college during alternate quarters or as arranged by both parties. To remain in the program, they must maintain creditable records at both places. Students must register for the appropriate cooperative education course each quarter they are employed and must observe all applicable regulations of the cooperating company.

Students pursuing the coop program should expect their matriculation to extend beyond four years. The college does not guarantee the availability of coop stations, duties, or compensation. At the conclusion of the coop experience, students are not obligated to accept employment with the cooperating companies and the companies are not obligated to offer them employment.

Students interested in this program should consult with the department head and the cooperative education program director.

BACCALAUREATE DEGREE PROGRAMS

CIVIL ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The curriculum in civil engineering technology is designed to provide ample instruction in those areas of knowledge required for successful performance in the following capacities as well as in other construction related positions.

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technologist—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy or rough draft drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

ELECTRONICS ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The electronics engineering technology curriculum provides instruction in the fundamentals of modern electronics theory, with emphasis on the application of theoretical principles to actual electronic devices, circuits and systems. Graduates of the electronics technology sequence are prepared to function in these positions.

Research and Development Technologist—engages in the development, building and testing of new equipment in the areas of digital electronics, communication electronics and guidance systems.

Process Control Technologist—supervises the operation of automatic control equipment for industrial processes.

Field Engineering Specialist—installs, tests, and maintains equipment such as data processing machines and other electronic systems.

High Frequency Technologist—maintains and/or operates radar, sonar, and other warning detection and navigation devices.

MECHANICAL ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The mechanical engineering technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery, test materials and supervise production and engineering projects. A graduate of the mechanical engineering technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Engineering Technologist—works with mechanical engineers on design and production projects.

Quality Control Supervisor—supervises incoming materials and outgoing products as well as manages personnel to assure quality.

Project Supervisor—manages technical personnel and materials to implement engineering projects.

Systems Test Technologist—participates in testing systems to determine if they meet design specifications.

PROCESS ENGINEERING TECHNOLOGY

The curriculum for Process Engineering Technology has been designed to provide an opportunity for those students who have pursued the associate degree program in Chemical Engineering Technology, a broader learning experience that encompasses unit design, process instrumentation, electrical/electronics systems and other related subjects which are not components of the associate degree program.

With the competencies gained by this learning experience, the process engineering technologist can work with varied professionals in the chemical or other related industry as plant operators, process supervisors, quality control specialists, research associates or instrumentation specialists. They may be also employed in the petroleum and petro-chemical, metallurgical, coal conversion, and nuclear generation industry.

CIVIL ENGINEERING TECHNOLOGY CURRICULUM
JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
*Mathematics 108-109	10 hours
Physics 201-202	10 hours
Area III—Social Sciences: 20 hours required	
History 101, 202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
Engineering Technology 101-102	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours
Additional Requirements:	
Physical Education	6 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 88 quarter hours	
Civil Engineering Technology 203, 211, 212, 213, 303, 311, 313, 333, 400, 401, 402, 403, 411, 412, 413, 421	67 hours
Engineering Technology 202, 203, 223, 302, 321, 322	21 hours
General Electives	9 hours

ELECTRONICS ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
*Mathematics 108-109	10 hours
Physics 201-202	10 hours
Area III—Social Science: 20 hours required	
History 101, 202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
Engineering Technology 101-102	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours
Additional Requirements:	
Physical Education	6 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 87 quarter hours	
Electronics Engineering Technology 103, 201, 202, 203, 213, 301, 302, 311, 313, 322, 323, 400, 401, 402, 431	74 hours
Engineering Technology 223, 302, 322	8 hours
Mathematics 214	5 hours
General Electives	10 hours

MECHANICAL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
*Mathematics 108-109	10 hours
Physics 201-203	10 hours

Area III—Social Science: 20 hours required

History 101-202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-102	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours

Additional Requirements:

Physical Education	6 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 94 hours as specified

Mechanical Engineering Technology 221, 222, 223, 233, 302, 303, 312, 323, 331, 400, 401, 402, 423, 431, 432	69 hours
Engineering Technology 202, 203, 223, 302, 312, 321, 322	25 hours
General Electives	3 hours

PROCESS ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109	10 hours
Physics 201-203	10 hours

Area III—Social Science: 20 hours required

History 101-202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-102	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours

Additional Requirements:

Physical Education	5 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 102 hours as specified

Chemistry 102, 103, 307, 308, 401, 402	28 hours
Chemical Engineering Technology 101, 201, 202, 203, 301, 401, 402, 403, 411, 412, 413	42 hours
Engineering Technology 202, 223, 302, 321, 322, 331, 332- 333	27 hours
Mathematics 214 or 404	5 hours
General Electives	3 hours

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirements for the comprehensive examination, all students in engineering technology are required to take an examination administered by the department.

MINORS IN TECHNOLOGY

These minors are available to any student in the College. Students in other schools are encouraged to pursue these minors for a possible second career or an avocation.

CONSTRUCTION (Not available to CET students)

Students may obtain a minor in Construction by completing 24 quarter hours of required courses and 5 quarter hours of specified electives:

ENT 101 Engineering Drawing I	5 hours
ENT 301 Architectural Drafting	5 hours
CET 211 Surveying I	5 hours
CET 212 Surveying II	4 hours
CET 203 Construction Management	5 hours
Total	24 hours

Specified Electives:

CET 223 Technical Writing	2 hours
CET 401 Construction Estimating	3 hours
ENT 202 Statics	5 hours
CET 213 Highway Design & Construction	5 hours
ENT 302 Engineering Economy	5 hours
CET 403 Environmental Systems	3 hours
CET 411 Soil Mechanics	4 hours

DESIGN AND DRAFTING

Students may obtain a minor in Design and Drafting by completing 19 quarter hours of required courses and selecting 8 to 10 quarter hours of specified electives:

ENT 101 Engineering Drawing I	5 hours
ENT 102 Engineering Drawing II	5 hours
ENT 301 Architectural Drafting	5 hours
ART 103 Drawing I	4 hours
Total	19 hours

Specified Electives:

ART 131 Introduction to Art and Design	2 hours
ART 302-3 Photography I and II	3/3 hours
ART 330 Interior Design	5 hours
ART 430 Printmaking I	4 hours
IAE 203 Industrial Arts Design	5 hours

ELECTRONICS (Not available to EET, CPT and CSC students)

Students may obtain a minor in Electronics by completing 24 quarter hours of required courses and 5 quarter hours of specified electives:

EET 103 Direct Current Circuits	4 hours
EET 201 AC Circuit Analysis	5 hours
EET 203 Electronic Principles	5 hours
EET 311 Digital Circuits I	5 hours
EET 322 Digital Circuits II	<u>5 hours</u>
Total	24 hours

Specified Electives:

ENT 101 Engineering Drawing I	5 hours
EET 323 Microcomputer Systems	5 hours
EET 304 Special Problems in Electronics I	5 hours

GENERAL TECHNOLOGY (Not available to MET students)

Students may obtain a minor in General Technology by completing 14 quarter hours of required courses and 15 quarter hours of specified electives:

ENT 101 Engineering Drawing I	5 hours
ENT 110 Practical Woodworking	3 hours
ENT 223 Technical Writing	2 hours
EET 103 Direct Current Circuits	<u>4 hours</u>
Total	14 hours

Specified Electives:

ENT 102 Engineering Drawing II	5 hours
MET 222 Manufacturing Processing I	5 hours
MET 223 Manufacturing Processing II	5 hours
ENT 301 Architectural Drafting	5 hours

MECHANICAL TECHNOLOGY (Not available to MET students)

Students may obtain a minor in Mechanical Technology by completing 19 quarter hours of required courses and 10 quarter hours of specified electives:

MET 221 Metallurgy	5 hours
MET 222 Manufacturing Processing I	5 hours
MET 223 Manufacturing Processing II	5 hours
MET 423 Industrial Engineering	<u>4 hours</u>
Total	19 hours

Specified Electives:

MET 331 Thermodynamics	5 hours
ENT 302 Engineering Economy	5 hours
MET 233 Fluid Mechanics	5 hours
MET 323 Material and Processes	5 hours

ASSOCIATE OF APPLIED SCIENCE DEGREE IN TECHNOLOGY

The department has two types of associate degree programs. One is a jointly sponsored program with Savannah Tech and the other a typical two year program.

The Regular Associate Degree Programs

CHEMICAL ENGINEERING TECHNOLOGY

The chemical engineering technician is a person whose education and training enables him to work with professional chemists or chemical engineers in industrial employment as a pilot plant operator and are able to assist in the design, fabrication, assembly, operation, testing and analysis of a new process, a plant, or a research unit.

The chemical engineering technician is also capable of performing qualitative and quantitative chemical analysis in the laboratory as well as instrumental analysis in special fields. Because of their training, the technician can bridge the gap between the chemist and the chemical engineer in the flow pattern between the glassware stage and pilot system stage.

FRESHMAN YEAR CURRICULUM:

Requirements: 53 quarter hours

English 107-108	10 hours
Mathematics 108-109-212	15 hours
Chemistry 101-102-103	15 hours
Engineering Technology 101-223	7 hours
Chemical Engineering Technology 101	1 hour
Physical Education	2 hours
Introduction to Science & Technology 100	3 hours

SOPHOMORE YEAR CURRICULUM:

Requirements: 49 quarter hours

Computer Science 150	5 hours
Mathematics 213	5 hours
Chemistry 307-308	10 hours
Political Science 200	5 hours
History 202	5 hours
Electronics Engineering Technology 103	4 hours
Engineering Technology 302-322	6 hours
Chemical Engineering Technology 201-202	9 hours

COMPUTER TECHNOLOGY

This program is designed to prepare technicians for the expanding opportunities available in the digital computing field. The program emphasizes electronic and electromechanical aspects of digital computing systems. Graduates are pre-

pared for employment opportunities in the installation and maintenance of digital equipment, application of computers to industrial control and data acquisition, and development of new devices, systems and test equipment.

FRESHMAN YEAR CURRICULUM:

Requirements: 53 quarter hours

English 107-108	10 hours
Mathematics 108-109-212	15 hours
Computer Science 125, 150, 164, 250	13 hours
Engineering Technology 101-223	7 hours
Electronics Engineering Technology 103	4 hours
Introduction to Science & Technology 100	3 hours
Physical Education	1 hour

SOPHOMORE YEAR CURRICULUM:

Requirements: 55 quarter hours

Computer Science 362	5 hours
Electronics Engineering Technology 201-202-311-322-323	25 hours
Computer Technology 203-211-212-213	14 hours
Engineering Technology Seminar 322	1 hour
Political Science 200	5 hours
History 202	5 hours

**THE COOPERATIVE ASSOCIATE
DEGREE PROGRAM**

This program is designed to combine the specialized technical development of the technical school with the general education curriculum of the College for the purpose of producing well qualified, employable technicians.

The program comprises four specific areas: Chemical Technology; Civil Technology; Drafting and Design Technology; Electronics Technology; and Mechanical Technology. Each curriculum requires 100 quarter hours for the degree. Fifty-five quarter hours are to be completed at Savannah State College and 45 quarter hours credit will be awarded for course work completed in the technical areas at Savannah Tech. A maximum of 25 quarter hours of general education may be transferred from another approved college.

Students may be concurrently enrolled at both institutions or they may complete the required work at either institution before enrolling at the other. Participants will be governed by admissions requirements and all applicable academic regulations of the College and the Technical School.

Each cooperative program will include the following courses:

SST 100 Introduction to Sciences and Technology	3 hours
ENG 107-108 English Communicative Skills	10 hours
*MAT 108 College Algebra & Trigonometry	5 hours
MAT 109 Plane Analytic Geometry	5 hours
PHY 201-202 or 203 General Physics or	
CHE 101-102 General Chemistry	10 hours
HIS 202 History of the United States	5 hours
PSC 200 Government	5 hours
ENT 300 Computer Applications in Technology	2 hours
ENT 322 Engineering Technology Seminar	1 hour
ENT 223 Technical Writing	2 hours
CSC 125 Introduction to Computer Science	3 hours
PED Physical Education	1 hour
Electives	<u>3 hours</u>
Total	55 hours

Technical courses taken at the Savannah Tech may be substituted for specified courses in each curriculum for those students who wish to seek a Bachelor of Science degree in Engineering Technology after completing the cooperative AAS degree program.

DUAL DEGREE PROGRAM

PRAVIN K. RAUT, Coordinator

Savannah State College has entered into an agreement with Georgia Institute of Technology to offer a Dual Degree Program whereby undergraduate students can attend this institution for approximately three academic years and the latter institution for approximately two academic years and receive baccalaureate degrees from both institutions. This program is open to majors in chemistry, mathematics, and civil, electronics, and mechanical engineering technology.

Bachelor's degrees offered at Georgia Institute of Technology as a part of this program are in aerospace engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, mechanical engineering, nuclear engineering, science in textile chemistry, science in textiles, and textile engineering.

In order for a student to become a dual degree candidate at Georgia Institute of Technology, he must have:

1. A college grade point average and specific test results which would indicate that he could satisfactorily complete the degree requirements at Georgia Institute of Technology.
2. A recommendation from the Dual Degree coordinator.
3. Completed 145-150 quarter hours at Savannah State College in the below listed courses according to his major.

GENERAL REQUIREMENTS

ENG 107-108-109 English Communicative Skills	15 hours
HMN 232 Introduction to the Humanities	5 hours
HIS 101-102 History of World Civilizations	10 hours
HIS 202 History of United States	5 hours
PSC 200 Government	5 hours
CHE 101-102 General Inorganic Chemistry I-II	10 hours
PHY 306 Advanced Mechanics and Heat	5 hours
PHY 307 Illumination and Optics	5 hours
PHY 308 Magnetic and Electrical Measurements	5 hours
MAT 212-213-214 Analysis I-II-III	15 hours
MAT 404 Differential Equations	5 hours
ENT 202 Statics	<u>5 hours</u>
Total	90 hours

CIVIL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102 Engineering Drawing I-II	10 hours
ENT 203 Dynamics	3 hours
ENT 321 Strength of Materials	5 hours
MET 312 Stress Analysis	5 hours
CET 211-212 Surveying I-II	9 hours
CET 203 Construction Management	5 hours
CET 401 Construction Estimating	3 hours
ENT 223 Technical Writing	2 hours
ENT 322 Engineering Technology Seminar	1 hour
MAT 108 College Algebra and Trigonometry II	5 hours
CSC 150 Computer Programming I	<u>5 hours</u>
Total	58 hours

ELECTRONICS ENGINEERING TECHNOLOGY MAJOR

ENT 101-102 Engineering Drawing I-II	10 hours
EET 103 Direct Current Circuits	4 hours
EET 201-202 Alternating Current Circuits I-II	10 hours
EET 203-301 Electronic Principles I-II	10 hours
EET 213 Electrical Machinery	5 hours
EET 302 Electronic Circuits	5 hours
EET 311-322 Digital Circuits I-II or	
CSC 150 Computer Programming	5 hours
MAT 108 College Algebra and Trigonometry II	5 hours
ENT 223 Technical Writing	2 hours
ENT 322 Engineering Technology Seminar	<u>1 hour</u>
Total	57 hours

MECHANICAL ENGINEERING TECHNOLOGY MAJOR

ENT 101-102 Engineering Drawing I-II	10 hours
ENT 203 Dynamics	3 hours
ENT 321 Strength of Materials	5 hours
MET 221 Metallurgy	5 hours
MET 312 Stress Analysis	5 hours
MET 222 Manufacturing Processing I	5 hours
MET 223 Manufacturing Processing II	5 hours
MET 323 Materials and Processes	5 hours
MAT 108 College Algebra and Trigonometry II	5 hours
ENT 223 Technical Writing	2 hours
ENT 322 Engineering Technology Seminar	<u>1 hour</u>
Total	56 hours

CHEMISTRY MAJOR

MAT 107-108 College Algebra and Trigonometry II	10 hours
CHE 103 General Inorganic Chemistry III	5 hours
CHE 303-304 Analytical Chemistry I-II	10 hours
CHE 305 Instrumental Methods of Analysis	4 hours
CHE 307-308 Organic Chemistry I-II	10 hours
CHE 309 Qualitative Organic Analysis	5 hours
CHE 313-409-410 Organic Preparation	4 hours
GER 151-152 Elementary German	<u>10 hours</u>
Total	58 hours

MATHEMATICS MAJOR

MAT 107-108 College Algebra and Trigonometry I-II	10 hours
MAT 217 Introduction to Probability and Statistics	5 hours
MAT 315-316 Modern Algebra I-II	10 hours
MAT 318 Advanced Probability and Statistics	5 hours
CSC 150 Computer Programming I	5 hours
MAT 320 Theory of Equations	5 hours
Elementary French, German or Spanish	<u>15 hours</u>
Total	55 hours

DESCRIPTION OF COURSES

ENGINEERING TECHNOLOGY (ENT)

101. Engineering Drawing. (3-7-5)

A study of drawing instruments, lettering, applied geometry, orthographic projection, auxiliary views, sectioning, dimensions. *Fall, Winter, Spring.*

102. Engineering Drawing II. (3-7-5)

Pictorial drawings, intersections and developments; and drawings related to each program. Prerequisite: ENT 101. *Fall, Winter, Spring.*

103-4. Engineering Drawing Problems. (3-7-5)

Topics in engineering drawing are studied on an individual basis. Each course may be substituted for ENT 101, or 102. *Summer.*

105. Computer Graphics. (2-6-5)

This course is specifically designed as a technical elective for engineering technology and computer science technology majors with an appropriate background in manual drafting.

202. Statics. (5-0-5)

A study of the mechanics of rigid bodies in equilibrium. Analysis of forces and moments in two and three dimensional systems and moment of inertia of areas will be studied and applied to engineering problems. Prerequisites: MAT 108, ENT 102. *Winter*.

203. Dynamics. (3-0-3)

A study of kinematics, kinetics, energy, power, momentum, and periodic motion. Prerequisite: ENT 202. *Spring*.

223. Technical Writing. (2-0-2)

Designed to develop skills in writing technical reports, and research papers; illustrating technical data; making oral presentations; and participating in group communications. Prerequisite: ENG 109. *Fall, Spring*.

241. Introduction to Power. (3-4-5)

A brief study of the sources of electrical power production and transmission devices with emphasis on methods of energy conservation. This includes the study of (1) nuclear energy, solar energy and conventional power plants; (2) single and three phase transformers and power distribution systems; (3) the principles of heating, cooling and heat loss of enclosures, including modern day trends of energy conservation. Prerequisites: EET 103, ENT 312 or IAE 312, MAT 108.

300. Computer Application in Technology. (1-3-2)

The application of BASIC and/or FORTRAN programming in the solving of engineering technology problems. Prerequisites: CSC 150 and junior standing in a technology major. *Fall, Winter, Spring*.

301. Architectural Drafting. (3-7-5)

A study of house planning and the making of architectural working drawings. Prerequisite: ENT 102.

302. Engineering Economy. (5-0-5)

Techniques for comparing alternatives by the use of engineering methods of analysis, applied economics and accounting. Economic considerations include the impact of taxes, methods of depreciation, and forecasting of cost-benefits of alternate methods on a present-value basis. Prerequisite: MAT 108 and junior standing in engineering technology.

303. Engineering Materials. (3-3-3)

Introduction to mechanical properties of engineering materials including metals, alloys, ceramics, plastics, rubbers, and composites. Description and measurement of physical, chemical, and structural characteristics affecting strength of materials in service. Application of materials selection in design of systems and processes. Prerequisites: CHE 103, PHY 203, ENT 101. *Spring*.

312. Electrical Power. (3-2-4)

Industrial applications of electrical power. AC-DC principles and their applications in motors; generators and transformers; electrical controls and auxiliary equipment including solid state devices; electrical lighting; and electrical power surveying. *Fall*.

321. Strength of Materials. (3-4-5)

A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. Prerequisites: MAT 213, ENT 202. *Fall.*

322. Engineering Technology Seminar. (1-0-1)

Covers a wide range of theory, techniques and application as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled in order to stimulate interest in the respective fields. *Winter.*

331. Instrumentation I. (2-0-2)

An introductory course dealing with the fundamentals and techniques of the measurement of basic industrial parameters of heat, pressure, and flow. Prerequisites: CHT 201, 202. *Fall.*

332. Instrumentation II. (2-0-2)

This course deals with the techniques of measurement of level, calorimetry, vicometry, density, and chemical reaction. Aspects of the theory of measurement are discussed and applied to problem solving. Prerequisite: ENT 331. *Winter.*

333. Instrumentation III. (0-4-2)

This is a laboratory course which permits the student to perform instrument calibrations (pressure, temperature, flow, etc.) and to fabricate specific test units, such as thermocouples, resistance thermometers, and special devices. Measurement of various parameters will be made in the laboratory under simulated industrial conditions and environment. Prerequisite: ENT 332. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

CIVIL ENGINEERING TECHNOLOGY (CET)

All courses require the completion of MAT 108 and ENT 102 in addition to the listed prerequisites.

203. Construction Management. (5-0-5)

This course will enhance the student's understanding of construction management, including the interrelated roles of human relations, management control systems, finance information systems, engineering systems and construction techniques. Topics on planning, scheduling and expediting will be covered, including CPM and PERT. Prerequisites: MAT 108, ENT 202. *Spring.*

211. Surveying I. (2-6-5)

A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. Prerequisites: ENT 102, MAT 108. *Fall.*

212. Surveying II. (3-2-4)

A study of land, route, and construction surveying. Prerequisite: CET 211. *Winter.*

213. Highway Design and Construction. (3-4-5)

A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. Prerequisites: CET 212, CSC 150. *Spring.*

303. Hydraulics. (3-2-4)

The analysis and design of hydraulic works, fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. Prerequisite: ENT 202. *Spring*.

306. Problems in Civil Engineering Technology I. (5-0-5)

Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a civil engineering technology course or elective at the discretion of the department head. Prerequisite: MAT 109 and consent of instructor. *Summer*.

311. Transportation Systems. (3-0-3)

The study of locating and designing railways, waterways and other transportation modes. Emphasis will be placed on the linkage of these modes for the effective and economic movement of people, materials, and equipment. Prerequisite: CET 212. *Fall*.

313. Urban Planning and Design. (3-4-5)

This course will provide instructions in the planning and spatial design of urban development with special attention to the aesthetic, functional and environmental factors. Prerequisites: ENT 302, CET 203, 212, 213. *Spring*.

323. Advanced Surveying. (3-4-5)

This course will provide instruction in the areas of coordinate systems, field astronomy, aerial photogrammetry and the legal aspects of surveying. Prerequisite: CET 212. *Offered on demand*.

333. Structural Analysis. (3-0-3)

An introduction to the theory of statically indeterminate structures. Course content includes unit load, moment distribution, space frames, influence lines, graphic statics, slope deflection, matrix, and analysis. Prerequisites: ENT 202, 203, 321. *Spring*.

400. Senior Design Project. (1-8-5)

The student correlates all previous information studied, and conceives, designs and develops the drawings, specifications, and estimate for an approved structure. Prerequisites: CET 203, 401, 412, *Winter*.

401. Construction Estimating. (2-2-3)

A study of the mathematical techniques used to estimate the cost of the equipment, labor, and materials involved in constructing highways and buildings. Emphasis is also placed on the study of codes, contracts, specifications, and the bidding process. Prerequisite: CET 203. *Fall*.

402. Water and Sewage Systems. (3-4-5)

A study of sources, collection, treatment, and distribution of municipal water and sewage systems. Course content includes water chemistry, network analysis, sanitary and storm water sewer design, and related topics. Prerequisite: CET 303.

403. Environmental Systems. (3-0-3)

A study of the environmental impact on the ecosystem. Emphasis is placed on the application of engineering practices in solving environmental problems such as air pollution, water pollution, solid waste and residue, and hazardous waste. Prerequisite: CET 303. *Spring*.

411. Soil Mechanics. (2-4-4)

A study of the physical properties of soils as a construction material as well as a foundation for buildings. Topics include soil classification, grain size analysis, stress analysis, Mohr's circle, Atterberg limits, permeability, shear strength, consolidation and settlement. Prerequisite: CHE 101, ENT 202. *Fall*.

412. Reinforced Concrete Design. (3-4-5)

Scientific principles and drafting room practices involved in designing reinforced concrete structures. Prerequisites: ENT 202, 321, CET 333. *Winter*.

413. Foundation Design. (3-0-3)

The application of the principles of soil mechanics and structural theory to the analysis, design, and construction of foundations for engineering works will be studied. Emphasis will be placed on the soil engineering aspects of soil-structure interaction as well as soil bearing capacity and settlement, spread footings, pile and caisson foundations, retaining structures, and substructure elements. Prerequisite: CET 411. *Spring*.

421. Steel Structures. (3-4-5)

A study of structural design procedures utilizing latest design methods according to building codes. The complete design of structures in steel, from conception to working drawings, is required as an integrative project. Prerequisites: ENT 202, 321, CET 333. *Fall*.

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

ELECTRONICS ENGINEERING TECHNOLOGY (EET)

All courses require the completion of MAT 108 and ENT 102 in addition to the listed prerequisites.

103. Direct Current Circuits. (3-2-4)

An introductory DC-circuits course dealing with Ohm's law, Kirchoff's voltage and current laws, superposition theorem, maximum power transfer theorem. Thevenin's and Norton's theorems. Laboratory activities familiarize students with the use of analog and digital multimeters, and DC power supplies. Prerequisites: MAT 108, ENT 102. *Spring*.

201. Alternating Current Circuit Analysis I. (3-4-5)

An introduction to electric and magnetic fields, meter construction, capacitance, inductance, time constants and the use of phasor notation for calculating AC circuit voltage, current and impedance. Laboratory activities include the operation of function generators, counters and oscilloscopes. Prerequisites: EET 103, MAT 109. *Fall*.

202. Alternating Current Circuit Analysis II. (3-4-5)

A continuation of AC circuit theory, AC power, network theorems, resonance, transformers and Fourier series. Students are introduced to the use of the spectrum analyzer and digital computer in the laboratory. Prerequisites: EET 201, MAT 109. *Winter*.

203. Electronic Principles I. (3-4-5)

A study of basic theory and applications of semiconductor devices. Rectifier clipper and clamper circuits. BJT transistor characteristics and biasing circuits, and FET transistors and biasing circuits. Laboratory activities include diode, BJT and FET characteristics curves, design of DC power supplies and transistor biasing circuits. Prerequisites: EET 202, MAT 212. *Spring*.

213. Electrical Machinery. (4-2-5)

A study of 3 phase power distribution systems, transformers, DC and AC motors and generators. Prerequisites: EET 202, MAT 212. *Spring*.

301. Electronic Principles II. (3-4-5)

Continuation of EET 203. AC equivalent circuits of transistors, input and output impedance of voltage amplifiers. Class A, class B and class C power amplifier circuits. Prerequisites: EET 203, MAT 213. *Fall*.

302. Electronic Circuits. (3-4-5)

A study of various electronic circuits including negative and positive feedback amplifiers, RF and broadband amplifiers, oscillators, voltage regulation, integrated circuits and operational amplifiers. Prerequisites: EET 301, MAT 213. *Winter*.

304. Special Problems in Electronics I. (3-4-5)

Topics and problems of special interest will be studied on an individualized basis. Can be substituted for an electronics engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 212, EET 103 and consent of instructor. *Summer*.

311. Digital Circuits I. (3-4-5)

A study of the fundamentals of digital electronics, including number systems, codes, Boolean algebra, logic gates, adders and multivibrators. Prerequisites: EET 202, 203, MAT 213, CSC 150. *Fall*.

313. Communication Electronics. (4-2-5)

A study of basic theory, devices, circuits and systems for the generation, processing and receiving of communication signals, including AM, FM, Single Side Band, and Pulse Modulation. Prerequisites: EET 301, 302, MAT 214. *Spring*.

322. Digital Circuits II. (3-4-5)

Continuation of EET 311. A study of counters, shift registers, input-output devices, D/A and A/D conversion, memories and arithmetic circuits. Prerequisites: EET 301, 311, MAT 214, CSC 150. *Winter*.

323. Microcomputer Systems. (3-4-5)

Analysis of basic microprocessor and microcomputer systems, including bus structure, address decoding, memory, I/O and peripheral devices. Programs are written in machine language. Prerequisites: EET 311, 322, MAT 214, CSC 150. *Spring*.

341. DC and AC Machines. (4-2-5)

Introduction to DC machines, three-phase induction machines, synchronous machines, and single-phase machines. Three phase transmission systems, including power measurements, transients and system stability. Prerequisites: ENT 241, or EET 201, MAT 213.

400. Senior Design Project. (1-8-5)

The student correlates all previous information studied, and conceives, designs and fabricates or evaluates an approved electronic project. A written technical report is required. Prerequisites: Completion of all EET courses and Senior Standing. *Winter.*

401. Network Analysis. (5-0-5)

Frequency domain analysis of audio amplifiers, active and passive filters using Laplace transformations and Bode plots. Introduction to circuit analysis using digital computers. Prerequisites: EET 203, 302, MAT 214. *Fall.*

402. Industrial Electronics. (3-4-5)

A study of the necessary background for understanding the concept and utilization of various electronics devices, circuit and system which are essential in industrial control and automation. Prerequisites: EET 302, 322, 401, MAT 214. *Winter.*

404. Special Problems in Electronics II. (5-0-5)

See EET 304. *Summer.*

431. Transmission Lines and Microwaves. (4-2-5)

A study of transmission lines, transmission line charts, impedance matching, guides, resonant cavities and microwave tubes. Prerequisites: MAT 214, EET 301. *Fall.*

441. Static Motor Control Systems. (3-4-5)

A study of the fundamentals of control and drive circuits used to alter the speed of AC and DC machines, including incremental and positional control circuits. Laboratory exercises cover the use of the basic AND, OR and NOT circuits, solid state relays, memory devices, adjustable time delays, and microcomputers. Prerequisites: EET 341 or 323, MAT 213, CSC 150.

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

MECHANICAL ENGINEERING TECHNOLOGY (MET)

All courses require the completion of MAT 108 and ENT 102 in addition to the listed prerequisites.

221. Metallurgy. (3-4-5)

A study of metals, alloys and their properties. Instruction will include heat treatment, metallography and phase diagrams. Prerequisite: CHE 101. *Fall.*

222. Manufacturing Processes I. (2-6-5)

A study of the hot and cold manufacturing processes of shaping, forming and joining materials. Laboratory practices are provided in foundry welding; sheet-metal and wrought iron fabrication. Prerequisites: MET 221, ENT 102. *Winter.*

223. Manufacturing Processes II. (2-6-5)

A study of the machining processes of manufacturing products. Laboratory practices are provided in turning, milling, shaping, drilling, and grinding processes. Prerequisite: MET 222. *Spring.*

233. Fluid Mechanics. (3-4-5)

A study of hydrostatics, viscosity, dimensional constants and the fluid flow in pipes. Prerequisite: ENT 202. *Spring*.

302. Kinematics. (2-4-4)

Graphical and analytical methods are used to determine displacements, velocities and accelerations in mechanisms. Prerequisite: ENT 203. *Winter*.

303. Dynamics of Machinery. (2-4-4)

A study of forces acting on the parts of a machine and the motion resulting from these forces. Prerequisite: MET 302. *Spring*.

305. Problems in Mechanical Engineering Technology I. (5-0-5)

Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a mechanical engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 109 and consent of instructor. *Summer*.

312. Stress Analysis. (3-4-5)

Theoretical and experimental study of one and two dimensional stress analysis of beams, cylinders, etc., subjected to axial, bending or torsional forces. Prerequisite: ENT 321. *Winter*.

323. Material and Processes. (3-4-5)

A study of the material manufacturing processes of steel, cast iron, aluminum, copper, plastics and ceramics as well as the various forming processes. Prerequisite: MET 221. *Spring*.

331. Thermodynamics. (5-0-5)

A study of the fundamental principles of extracting energy from working fluids. Prerequisites: MAT 213, CHE 101. *Fall*.

400. Senior Design Project. (1-8-5)

A hands-on design project aimed at putting the knowledge gained from the study of the machine design courses into reality. Prerequisite or corequisite: MET 402 and Senior Standing.

401. Machine Design I. (2-4-4)

A study of failure criteria, due to static and fatigue loading, and the design of screws shafts. Prerequisites: ENT 102, MET 312, 303. *Fall*.

402. Machine Design II. (2-4-4)

The design of springs, bearings, gears, belts, clutches, brakes and connections. Prerequisite: MET 401. *Winter*.

405. Problems in Mechanical Engineering Technology II. (5-0-5)

See MET 305. *Summer*.

423. Industrial Engineering. (4-0-4)

An introduction to industrial systems, plant layout, material handling and packaging, production and quality control, time and motion studies and other related topics. Prerequisite: MET 323 or consent of instructor. *Spring*.

431. Heat Transfer. (3-4-5)

An introduction to heat conduction, convection and radiation and its applications to engines, heat exchangers, air conditioning and refrigeration systems. Prerequisites: MET 233, 331. *Fall.*

432. Mechanical Power. (2-4-4)

A study of various types of internal and external combustion engines, including their thermal efficiencies, engine ratings, performance parameters. Prerequisite: MET 331. *Winter.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered during another quarter. Always consult your advisor.

COMPUTER TECHNOLOGY (CPT)

All courses require the completion of ENT 101 and MAT 212 in addition to the listed prerequisites.

203. Principles of Computer Electronics. (3-4-5)

This course will emphasize the theory and application of unipolar and bipolar devices, rectifier circuits, filters and basic amplifier configurations. Prerequisites: CSC 362, EET 202, 322, CPT 212. Corequisites: EET 323, CPT 213. *Spring.*

211. Operating Systems I. (1-4-3)

The study of the functional operations of computer peripherals of the variety of types. Included in the course will be the study of processor/peripheral control dialogue and data transfer. Practice in electromechanical alignment and trouble shooting techniques will be included. Prerequisites: CSC 125, 150, EET 103. Corequisites: EET 201, 311. *Fall.*

212. Operating Systems II. (1-4-3)

A study of the interrelationships of hardware and software. Emphasis will be placed on determining software and hardware failures. Instruction will be given in the use of diagnostic programs to identify and isolate failing devices or subsystem. The proper techniques for making satisfactory repairs will be demonstrated. Prerequisites: EET 201, 311, CPT 211, CSC 125, 150. Corequisites: EET 202, 322, CSC 362. *Winter.*

213. Operating Systems III. (1-4-3)

A study of the interrelationships of software and hardware at the system level. The use of operating systems as well as customer software to debug hardware generated faults in the compiler system will also be included. Prerequisites: EET 202, 311, CPT 212, CSC 362. Corequisites: EET 323, CPT 203. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

CHEMICAL ENGINEERING TECHNOLOGY (CHT)**101. Introduction to Chemical Engineering Technology. (1-0-1)**

This course is designed to acquaint the students enrolled in the Chemical Technology and Process Engineering Technology programs an overview of the chemical, petroleum, pharmaceutical, food processing, and other allied industries which would employ graduates of both curricula. Speakers from the various industries will present information about the types of positions and responsibilities of these positions. *Winter.*

201. Process Operations. (5-0-5)

An introductory course in the study of materials and energy balances in relation to industrial processes. Included are a study of units, measurement systems, thermochemistry, and the first law of thermodynamics. The first principles of SI units, decimal, and English measurement systems are presented for application to problem solving in areas of chemical process, and the handling of multiple by-pass and recycle streams. Prerequisites: MAT 212, CHT 101, CHE 103. *Fall*.

202. Heat Transfer and Fluid Flow. (4-3-5)

This course will acquaint the student with the first principles of fluid flow and energy transport. Study topics include conduction, convection and radiation heat transfer, heat exchanges, incompressible viscous flow in conduits, mixing, characteristics of pumps, and flow through packed beds. Prerequisites: CHT 201, MAT 213. *Winter*.

203. Unit Operations. (3-4-5)

Principles and designs of equilibrium stage operations applied to distillation, solvent extraction, absorption, leaching and absorption. Graphical methods for solving practical problems are emphasized. Prerequisites: CHT 202, CSC 150. *Spring*.

301. Transport Phenomena. (3-4-5)

Introduction to the fundamentals of heat, mass and momentum transfer. Also covered in this course are humidification, drying and evaporation. Prerequisite: CHT 203. *Fall*.

401. Particle-Fluid Mechanics. (3-0-3)

This course covers process engineering operations involving particle/fluid mechanics. Topics covered include packed beds, fluidised beds, filtration and sedimentation. Prerequisite: CHT 203. *Fall*.

402. Process Engineering Economics. (3-0-3)

Capital requirements for process plants, production costs, earnings and profits. The economic balance is applied to several process engineering operations. A student project on the economic analysis of a process is required in this course. Prerequisites: CHT 401, ENT 302. *Winter*.

403. Reactor Design. (2-6-5)

Application of material and energy balances, chemical equilibrium relations and chemical kinetic expressions to the design of chemical reactors. Prerequisites: CHT 411, CSC 150. *Winter*.

411. Process Thermodynamics. (4-0-4)

Basic concepts and use of the thermodynamic functions of entropy, enthalpy, and free energy; relationships among variables; properties of pure fluids and mixtures; exchange of properties on mixing; application of the conditions of thermodynamics equilibrium or defined by Gibbs to phase and chemical equilibria; thermodynamic process and efficiencies. Prerequisites: ENT 333, CHT 301. *Fall*.

412. Process Design. (0-6-3)

This course concentrates on piping design problems associated with heat exchangers, pumps, horizontal and vertical vessels, pipeways, and plant layouts. Emphasis is placed on the design and preparation of the drawings for these subsystems. Includes a comprehensive chemical process plant design project. Prerequisites: ENT 102, CHT 401. *Spring*.

413. Process Control. (4-2-5)

The content of this course will include the dynamic response and control of process equipment such as heat exchangers, chemical reactors, absorption towers, etc. Prerequisites: CHT 401, 402, 412. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered during another quarter. Always consult your advisor.

INDUSTRIAL ARTS AND TRADE AND INDUSTRIAL EDUCATION

The Department of Engineering Technology cooperates with the School of Education, Armstrong State College in offering a Bachelor of Science in Education degree with majors in Industrial Arts Education and Trade and Industrial Education. Course work in the major field of study for these programs is offered at the College, while the remaining course work is offered at Armstrong State College.

Students who began their respective programs at Savannah State College may have course taken at Savannah State College substituted for reasonably equivalent courses at Armstrong State College.

Students interested or currently participating in either of these programs should confer with the head of the Department of Secondary Education at Armstrong State College and the head of the Department of Engineering Technology at Savannah State.

INDUSTRIAL ARTS EDUCATION CURRICULUM

Bachelor of Science in Education With a Major in Industrial Arts

JUNIOR COLLEGE CURRICULUM:*

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
***English 111-112-211	15 hours
Art 200, 271, 272, 273, Music 200, Philosophy 200, 201 or	
***English 222	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
***Chemistry 128-129 or Physics 211-212	10 hours
***Mathematics 101 and 103 or 195	10 hours
Area III—Social Science: 20 hours required	
***History 114, 115	10 hours
***Political Science 113	5 hours
***Economics 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
Psychology 101	5 hours
Education 200	5 hours
Drama/Speech 228	5 hours
**Industrial Arts 201, 202, 203	15 hours
Additional Requirements:	
Physical Education 103 or 108 and 117 and three activity	
courses	6 hours
***History 251 or 252	5 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter

**Major Requirements: 55 hours as specified	
Industrial Arts Education 212-301-302-303-312-401	50 hours
Mechanical Engineering Technology 223	5 hours
Engineering Technology 101, 102	10 hours
Teacher Education Sequence: 40 hours	
***Education 310-335-470-480-490	25 hours
Psychology 301	5 hours
**Industrial Art Education 411, 422	10 hours
**Approved Electives	10 hours

*Certain courses may be exempted by examination with credit awarded. See "Admission" section of the Armstrong State College *Bulletin*.
**Courses offered only at Savannah State College.
***These courses are offered at Armstrong State College. See engineering technology department head at Savannah State for equivalent SSC courses.

TRADE AND INDUSTRIAL EDUCATION CURRICULUM

Bachelor of Science in Education With a Major in Trade and Industrial Education

JUNIOR COLLEGE CURRICULUM:*

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
***English 111-112-211	15 hours
***Art 200, 271, 272, 273, Music 200, **Philosophy 200, 201, or ***English 222	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
Chemistry 128-129 or Physics 211-212	10 hours
***Mathematics 101 and 103 or 195	10 hours
Area III—Social Sciences: 20 hours required	
***History 114, 115 and 251 or 252	15 hours
***Political Science 113	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
***Psychology 101	5 hours
***Education 200	5 hours
***Drama/Speech 228	5 hours
***Art 111 or 112, or Economics 201	5 hours
**Trade and Industrial Education 100, 200	10 hours
Additional Requirements:	
**Physical Education 103 or 108 and 117 and three activity hours	6 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 55 hours as specified

**Trade and Industrial Education 210-300-301-303-323 or 410	30 hours
**Trade and Industrial Education 311-313-401-402-403 or Technical Electives	25 hours
Teacher Education Sequence: 40 hours	
***Education 310-335	10 hours
**Trade and Industrial Education 411-421-431-432-433	25 hours
**Psychology 301	5 hours
Approved Elective	5 hours

*Certain courses may be exempted by examination with credit awarded. See "Admissions" section of the Armstrong State College *Bulletin*.
**Courses offered only at Savannah State College.
***Courses offered at Armstrong State College. See engineering technology department head for equivalent courses at SSC.

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirement for the comprehensive examination, all students in industrial teacher education programs are required to take both the common examination and the teaching area of the National Teacher Examination.

DESCRIPTION OF COURSES

INDUSTRIAL ARTS EDUCATION (IAE)

201. Wood Processing I. (3-7-5)

Care of tools and machinery, basic hand and machine operations, materials selection, and finishing. Prerequisite: ENT 102. *Fall*.

202. Wood Processing II. (3-7-5)

A study of the construction of more advanced projects by the use of power tools and machines, and woodfinishing. Prerequisite: IAE 201. *Winter*.

203. Industrial Arts Design. (3-7-5)

Opportunities are provided for the development of design sensitivity and an appreciation for the aesthetic quality of products. Consideration is given also to the analytical and problem-solving procedures of the industrial designers. Prerequisite: ENT 102. *Spring*.

212. Metal Fabrication. (3-7-5)

A study of various metal forming, joining and casting techniques using a variety of metals and processes. Study includes the care, set-up and operating principles of equipment. *Winter*.

302. Power Mechanics. (3-7-5)

A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets. *Winter.*

303. Graphic Art Technology. (3-4-5)

Instruction in the printing processes and areas related to the process. Experiences will include graphic design, composition, photography, offset printing and the screen process.

312. General Electricity. (3-7-5)

The nature, forms and sources of electricity, conductors, insulators, electrical measurements, low voltage and residential wiring, electrical heating and lighting are presented in this course. Prerequisite: MAT 108. *Fall.*

401. Industrial Arts Electronics. (3-7-5)

Electromagnetism, relays, transformers, diodes, power supplies, test equipment, small project construction and trouble-shooting. Prerequisite: IAE 312. *Winter.*

403. Special Interest Problems. (0-0-5)

Typical problems related to technical knowledge and the execution of skills as revealed on the field. Can be substituted for industrial arts courses or electives at the discretion of the department head. Prerequisites: ENT 103 and consent of instructor. *All quarters.*

411. Curriculum Building and Shop Organization. (5-0-5)

A study of the techniques of curriculum development; shop organization and management. Prerequisites: Admission to Teacher Education, PSY 301, EDN 335. *Winter.*

421. Methods of Teaching Industrial Arts. (5-0-5)

Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts. Prerequisites: Admission to Teacher Education, PSY 301, EDN 335.

490. World of Construction. (3-7-5)

This course is designed to prepare one for the teaching of basic knowledge and skills of the construction industry as developed by the Industrial Arts Curriculum Project. *Offered on demand.*

495. World of Manufacturing. (3-7-5)

This course is designed to prepare one for the teaching of basic concepts of management, personnel and production techniques for creating finished goods in a plant or factory as developed by the Industrial Arts Curriculum Project. *Offered on demand.*

TRADE AND INDUSTRIAL EDUCATION (TIE)**100-200-210-300. Cooperative Industrial Work Experience. (0-0-5)**

Student works in industry under the supervision of a college coordinator to gain practical work experience in the occupational area he plans to teach. If the student has prior acceptable work experience in his occupational area, credit will be granted in these courses proportionately. *All quarters.*

203. Techniques of Teaching Vocational Education. (5-0-5)

An introductory course for teachers of occupational education involving selection, organization and methods of instruction. *Offered on demand.*

301. History of Vocational Education. (5-0-5)

A study of the development of vocational-industrial education in the United States with emphasis on personalities and technical developments that influenced its growth.

303. Shop Management. (5-0-5)

A study of the sources of materials, means of purchasing, methods of inventorying; systems of arranging, installing, maintaining, storing and issuing shop tools and equipment.

311-313-401-402-403. Competency in Occupation. (0-0-5)

Graduates of vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations or other evidences of competency.

323. Occupational Analysis. (5-0-5)

A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes.

410. Instructional Aids. (5-0-5)

This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education.

411. Industrial Education Curriculum. (5-0-5)

A study of courses making and curriculum development with emphasis on organizing instructional materials for vocational-industrial educational programs. Prerequisite: Admission to Teacher Education, PSY 301, EDN 335. *Winter.*

421. Methods of Teaching Industrial Subjects. (5-0-5)

The techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets, using a variety of instructional media, and measuring student achievement in trade and industrial education. Prerequisites: Admission to Teacher Education, PSY 301, EDN 335. *Winter.*

431-432-433. Teaching Internship in Trade and Industrial Education. (0-0-5)

A cooperative undertaking between the college and public school system to provide college supervision for employed permit trade and industrial education teachers. This experience is for one academic term and may be taken in lieu of EDN 470, 480, 490. Prerequisites: EDN 334, TIE 411, 421; vocational teaching permit; full-time employment as a trade and industrial education teacher, and approval of teacher's employer. *All quarters.*

**DEPARTMENT OF NAVAL SCIENCE
(NAVAL ROTC)**

CDR EDWARD CLARK, JR., USN, HEAD

CDR Ormond C. Fowler, Jr., USN	YNCS (SS) Buddy E.
Capt. Eddie Bickham, USMC	Arbuckle, USN
Lt Brian D. Carmichael, USN	SKC Stephen A. Floyd, USN
Lt Jerry A. Dalo, USN	QMC (SS) George E. Mason,
Lt Cranford R. Coleman, USN	USN
NCCS Archie L. Sanders, USN	GYSGT Willie G. Medley,
	USMC
	Elizabeth P. Evans, Secretary
	Rose B. Tyson, Secretary

GENERAL

The Naval Reserve Officer's Training Corps (NROTC) program prepares students for commissioned service as regular or reserve officers in the Navy or Marine Corps.

Students enrolled in the NROTC Program are referred to as Midshipmen (MIDN) or as Naval Science Students (NSS) and are designated based on Naval Science academic status as follows:

SSC Student	NROTC Midshipmen
Senior.....	1/C (First Class)
Junior	2/C (Second Class)
Sophomore	3/C (Third Class)
Freshman	4/C (Fourth Class)

**NAVAL SCIENCE CURRICULUM
NROTC PROGRAM
BASIC COURSE**

NAVY AND MARINE CORPS OPTIONS:

Naval Science: 18 hours

NSC 101-102, 104	8 hours
NSC 201, 204	10 hours

Substitute Requirements

NSC 450 (3 Qtrs) satisfies 6 hours of physical education requirements.

Advanced Course - Navy option

Naval Science: 14 hours

NSC 301-302, 304-305-306	9 hours
NSC 401-402-403-404-405	5 hours

Specific Electives: 40 hours

#Math 212-213-214 (to be completed by end of Sophomore Year)	15 hours
#Physics 306-307-308 (to be completed by end of Junior Year)	15 hours
#History 201	5 hours
#Political Science 201	5 hours

#Required for scholarship midshipmen; encouraged for others.
*Recommended for non-scholarship and midshipmen not majoring in one of the following areas: Math, Physics, Computer Science, Engineering or Chemistry; encouraged for others.

Advanced Course - Marine Corps Option

Naval Science: 12 hours

NSC 307-308-309	6 hours
NSC 406-407	6 hours

Specific Electives:

#NSC 301-302	
*History 201	5 hours
*Political Science 201	5 hours

**Recommended for non-scholarship and midshipmen not majoring in one of the following areas: Math, Physics, Computer Science, Engineering or Chemistry; encourage for others.*

#Strongly encouraged

Additional Requirements As Applicable

NSC 450 Naval Drill (0-2-0), required each academic term by all midshipmen.

Scholarship Midshipmen:

(1) Must complete one academic term in a major Indo-European or Asian Language prior to commissioning.

(2) Navy Option in a non-technical curricula shall complete a sufficient number of technical electives from the below list to comprise 50 percent of all electives not required by the academic major or NROTC Program. Calculus and Physics courses count towards satisfying this requirement:

Business: BAD 331, 332, 416

Chemistry: Any listed course

Math, Phy, CS: any listed courses except Math 110 and 311

Engineering Technology: Any listed course under EET, CET, MET

(3) Navy Option College Program Midshipmen (non-scholarship) must complete 1 year of Math, college algebra or higher, by the end of the Junior Year and 1 year of Physical Science by the end of the Senior Year as a prerequisite for commissioning. The Physical Science requirement can be met by completing

a one-year sequence, or two courses, in any area of physical science. One Mathematics course may be selected from the fields of computer science or statistics.

(4) All Marine Corps Option students shall take, during the Junior or Senior Year, two relevant courses normally taught by civilian faculty. Courses must be approved by the Marine Corps Officer Instructor and should not create an academic overload (increase time required for degree completion/commissioning and/or require student to carry more than 18 hours).

Comprehensive Examination/Competency Attainment Testing (CAT)

The CAT Program consists of three cumulative comprehensive exams. Exams will be administered each year in the Fall Quarter. Successful completion of CAT exams is a consideration for advancement and commissioning.

NROTC Uniforms, Books, and Instructional Materials

Will be issued at no cost to Naval Science students. Uniforms must be returned before commissioning or upon disenrollment from the NROTC Program; books and other instructional materials must be returned at the end of each academic term.

Scholarship Programs

Two and three and-a half year Scholarships that pay tuition, fees, books and laboratory expenses, in addition, scholarship midshipmen also receive a \$100 per month tax free stipend during the academic year.

Financial Assistance

All midshipmen in the advanced NROTC Program (Junior and Senior Years) are paid a \$100 per month tax free subsistence allowance (same as \$100 per month stipend for scholarship midshipmen).

Summer Training Cruises

All Scholarship midshipmen will go on Summer Training Cruises each year. Non-scholarship midshipmen will go on a Summer Training Cruise between their Junior and Senior year. While on summer training midshipmen will be paid active duty Navy rates and will be provided travel, room and board at government expense.

4 and 2-Year NROTC Program

4-Year program students enroll in the program as Freshmen and participate until graduation.

2-Year program students enter the program after they complete approximately 90 hours (end of Sophomore year) and complete a six-week professional, academic, and physical training program conducted each summer by the Navy, normally in Newport, RI and referred to as Naval Science Institute (NSI). Academic work at the Naval Science Institute is the equivalent of the NROTC basic course and 15 hours of credit will be given to students who successfully complete NSI.

DESCRIPTION OF COURSES

NAVAL SCIENCE

NSC 101. Introduction to Naval Science I. (1-0-1)

Introduce midshipmen to NROTC Program mission, organization, regulations, and broad warfare components of the Naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement, and retirement policies. The course also covers the basic tenets of Naval courtesy and customs, and Naval Leadership. *Fall, Spring.*

NSC 102. Introduction to Naval Science II. (2-0-2)

A study of the organization of the Naval service, career opportunities, and the duties of a Junior Officer in the Naval service. Students are familiarized with the major challenges facing today's Naval Officer, especially in the areas of leadership and human resource management. *Winter.*

NSC 104. Naval Ships Systems I. (Engineering) (5-0-5)

A detailed study of ship characteristics and types including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control. Included are basic concepts of the theory and design of steam, gas turbine, and nuclear propulsion. Shipboard safety and firefighting are also covered. *Fall.*

NSC 201. Seapower and Maritime Affairs. (5-0-5)

A survey of American Naval and Maritime history from the American Revolution to the present with emphasis on major developments. Attention will be focused on Mahan's geopolitical theory; the economic and maritime forces; U.S. military and maritime strategy; and a comparative analysis of American and Soviet maritime strategies. *Fall or Winter.*

NSC 204. Naval Ship Systems II, Weapons. (5-0-5)

This course outlines the theory and employment of weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and Naval ordinance. Fire control systems and major weapons types are discussed, including capabilities and limitations. The facets of command, control, and communications are explored as a means of weapons system intergration. *Spring.*

NSC 301. Basic Sailing I (Classroom). (0-1-0)

A basic foundation course that provides students with the fundamental knowledge and skills to be a competent crew member. The course covers the basic theory of sailing, nomenclature, seamanship, boat equipment and safety, and inland waters navigation rules for sailing craft. An "A" crew qualification can be issued upon completion. Prerequisite: Student must be a certified third class swimmer. *Fall, Winter.*

NSC 302. Basic Sailing II (On-water). (0-1-0)

Basic on-hands sail training leading to qualification as "B" skipper. Practical skills to be mastered consist of rigging and sailing from a pier; sail to weather; sail two figure eight courses with two tacks and two jibes; man overboard maneuver; a capsize; and return to dock and secure. Prerequisites: NSC-301 and must be a certified third class swimmer. *Spring.*

NSC 304-305. Navigation I & II. (3-1-3)

An in-depth study of piloting and celestial navigation theory, principles, and procedures. Students learn piloting navigation: the use of charts, visual and electronic aids, and the theory and operation of magnetic gyro compasses. Celestial navigation is covered in-depth including the celestial coordinate system, an introduction to spherical trigonometry, the theory and operation of the sextant, and a step-by-step treatment of the sight reduction process. Students develop practical skills in both piloting and celestial navigation. Other topics discussed include tides, currents, effects of wind and weather, plotting, use of navigation instruments, types and characteristics of electronic navigation systems, and a day's work in navigation. *Fall, Winter.*

NSC 306. Naval Operations. (3-1-3)

A study of the international and inland rules of the nautical road, relative-motion vector-analysis theory, relative motion problems, formation tactics, and ship employment. Also included is an introduction to Naval Operations and aspects of ship handling, and afloat Naval communications. Prerequisites: NSC 304 & 305. *Spring.*

NSC 307-308. Evolution of Warfare I & II. (3-0-3)

This course historically traces the development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, develop an understanding of military alternatives, and become aware of the impact of historical precedent on military thought and actions. *Fall, Winter.*

NSC 309. Marine Corps Laboratory. (0-3-0)

A course for Marine Corps Option students which stresses the development of leadership, moral, and physical qualifications necessary for service as Marine Corps officers. Practical laboratory exercises in mission and organization of the Marine Corps, duties of interior guards, introduction to military tactics, troop leadership procedures, rifle squad weapons and theory of physical conditioning program. This course serves to prepare students for the Marine Corps Summer Training at Officer Candidate School (BULLDOG). *Spring.*

NSC 401-403. Naval Operations Laboratory I, II, III. (0-1-0)

Practical laboratory exercises conducted in a dynamic, composite and time oriented fleet environment to further develop and improve surface warfare skills for Navy Option midshipmen. *Fall, Winter & Spring sequence.*

NSC 404. Leadership and Management I. (3-1-3)

A comprehensive study of the principles and concepts of Institutional Management, Organizational and Human Behavior, and effective leadership. Students will develop additional knowledge and practical skills in the areas of communication theory and practices; Human Resources Management; stress Management; Counseling; Group Dynamics; and the nature and dynamics of individual and institutional change, human resistance to change and the Strategy for implementing change. *Fall.*

NSC 405. Leadership and Management II. (2-1-2)

A study of the Management responsibilities of a junior Naval Officer. The course covers counseling methods, military justice administration, Naval human resources management, directives and correspondence, naval personnel administration, material management and maintenance, and supply systems. This course builds on and integrates the professional competencies developed in prior course work and professional training.

NSC 406-407. Amphibious Warfare I & II. (3-0-3)

A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the 20th century, especially during World War II. Present day potential and limitations on amphibious operations, including the rapid deployment force concept. *Fall, Winter.*

NSC 450. Naval Drill. (0-2-0)

Introduces students to basic military formations, movements, commands, courtesies and honors, and provides practice in Unit leadership and management. Physical conditioning and training are provided to ensure students meet Navy/Marine Corps physical fitness standards. Successful completion of three quarters of this course by NROTC students satisfies the College's six hour Physical Education requirement. NSC 450 is required each quarter for all NROTC students (450.1 for Freshman and Sophomore; 450.2 for Junior and Seniors).

DEPARTMENT OF MILITARY SCIENCE (ROTC)

CAPTAIN KEITH MERRELL, Head

Staff Sergeant Troy McCants

Master Sergeant Joe Johnson
Mrs. Raycine McGhee

General

The Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC), Instructor Group, staffed by Active Army Personnel. The department provides a curriculum available to Savannah State that qualifies the college graduate for a commission as an officer in the U.S. Army, United States Army Reserve, or the United States Army National Guard. Qualifying for a commission adds an extra dimension to the student's employment capability in that, upon graduation from college, the student has either military or civilian employment option. Enrollment is open to male or female students of Savannah State.

The Reserve Officer Training Corps program is designed to develop leadership qualities and to give students an understanding of the Armed Forces and how they support the national policies and interest of the United States. In particular, ROTC programs are charged with the mission of commissioning second lieutenants who have the qualities, attributes and educational credentials essential for service as junior officers in the Army.

Department of Military Science

The course of study offered in military science is designed not only to prepare both the male and female student for service as a commissioned officer in the United States Army but also to provide him with knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the U.S. Army in the national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advanced military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the advanced course are commissioned second lieutenants in the United States Army Reserve in the branch of service most appropriate to their interests and academic achievements, consistent with the needs of the Army. The branches of the Army include not only the vital combat arms, but such supporting technical fields as signal, ordinance, transportation, finance, legal, engineering, chemical and medical. Regardless of the branch selected all officers will receive valuable experience in management, logistics and administration.

Advanced course graduates will be commissioned and either called to active duty after graduation to serve for a period of three to six months or three years depending on the prevailing military requirements and circumstances. Graduates may be granted a delay in reporting for active duty for graduate study. A small number of outstanding students are designated distinguished military graduates and are offered commissions in the Regular Army each year.

Basic Military Service

Basic military science courses involve six quarters during the freshman and sophomore years. The student learns the organization and roles of the U.S. Army and acquires essential background knowledge of customs and traditions, weapons, map reading, tactics and communications. Equally important, these courses have the objective of developing the student's leadership, self-discipline, integrity and sense of responsibility.

Placement

Veterans entering the military science programs will receive appropriate placement credit for their active military service. Students who have completed military science courses in military preparatory schools or junior colleges may be given appropriate credit. Students with at least three years of high school ROTC may also be granted placement credit. Placement credit or six quarters of basic military science, or the equivalent thereof, is a prerequisite to admission into the advanced program.

Advanced Military Science

The general objective of this course of instruction is to produce junior officers who by education, training, attitude and inherent qualities are suitable for continued development as officers in the Army. There are two avenues available for the student to be eligible for entry into the advanced program and obtain a commission as a second lieutenant:

- (a) satisfactory completion of, or placement credit for, the basic program at Savannah State or at any other school, college or university offering basic ROTC and meeting the entrance and retention requirements established by the Army.
- (b) be an active duty veteran or junior ROTC cadet graduate eligible for placement credit.

Alternate Programs for Admittance to Advanced Military Science

Students with two years of coursework remaining, but who have not completed basic military science, are eligible to be considered for selection into the advanced military science, are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete a basic summer camp of six weeks duration prior to entering the advanced program or must enroll in the condensed summer school phase of the basic course. This latter program consists of six, two-hour courses given during the summer quarter. A student may take

other courses during this session. Upon successful completion of the military science courses, they will be placed in the advanced course. Students attending the basic camp at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return.

Advanced Summer Camp

Students contracting to pursue the advanced courses are required to attend advanced summer camp, normally between their junior and senior academic years at Fort Bragg, North Carolina. Students attending this camp are paid at active army rates and given travel allowance from their home to camp and return.

Financial Assistance

All advanced cadets are paid a subsistence allowance of \$100 per month while enrolled in the advanced course.

Scholarship Program

Each year the U.S. Army awards one, two- and three-year scholarships to outstanding young men and women participating in the Army ROTC program who desire careers as regular Army officers. The Army pays tuition, fees, books and laboratory expenses incurred by the scholarship student and, in addition, each student receives \$100 per month for the academic year. Individuals desiring to compete for these scholarships should apply to the professor of military science at Savannah State.

Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before commissioning or upon disenrollment from the ROTC program.

Army ROTC Courses (MIL)

The basic course of six quarters duration consists of one hour of classroom work and one hour of leadership laboratory per week. In the classroom, the student acquires knowledge of military organization, weapons, tactics, basic military skills, history and customs. In Leadership Laboratory, potential for leadership is progressively developed.

The advanced course consists of three hours of classroom work and one hour of leadership laboratory per week for two quarters in the third and fourth years. During the spring quarter prior to advanced camp the student will enroll in MIL 303 to prepare for attendance at Advanced Camp. This two-hour course is normally taken during the third year. One quarter of the senior year must include an elective approved by the Military Science Department. The coursework during the advanced course emphasizes techniques of management and leadership and the fundamentals and dynamics of the military team. The leadership laboratory provides the student with applied leadership experiences.

Basic Course

101. Army Organization. (2-0-1)

A study of the U.S. Army and the ROTC Organization. Prerequisite: None.

102. Basic Weapons and Military Skills. (2-0-2)

A study of characteristics of basic military weapons, the principles and fundamentals of rifle marksmanship, the elements of first aid, and the employment of individual camouflage, cover, concealment and field fortifications. Prerequisite: None.

103. Basic Survival. (2-0-2)

A study and practical experience introducing military technique used to sustain human life when separated from logistical support. No prerequisites.

104. Basic Military Skills. (1-1-2)

A study of the basic military skills essential to the contemporary soldier with emphasis on individual training in first aid, intelligence information and field preparedness. Chemical, biological and nuclear operations on the modern battlefield. Prerequisite: MIL 102, or approval of PMS.

201. Map and Aerial Photograph Reading. (2-0-2)

A study of basic map reading as applied by the small unit leader. Prerequisites: MIL 102 and 104, or approval of PMS.

202. Basic Tactics and Operations. (2-0-2)

A study of small unit tactics, operations and troop leading procedures to include the combined arms teams to the platoon with primary interest on the rifle squad. Prerequisites: MIL 102, 104, 201 or approval of PMS.

203. Mountaineering Techniques. (2-0-2)

A study and practical exercise introducing the fundamental of mountain climbing and rappeling. Proper know tying and safety procedures are emphasized.

204. Military Communications. (2-0-2)

A study of military communications procedures to include terminology, security, electronic warfare and preparation of military correspondence. Prerequisite: None.

205. The Threat. (2-0-2)

A study of the organization, tactics, and equipment of threat forces. Major emphasis is placed on those tactics used in Western Europe.

Advanced Course

301. Leadership and Management I. (3-1-3)

A study of the psychology of leadership, techniques of management, and methods of instruction to include practical application. Prerequisite: Basic Course or equivalent and permission of the Department.

302. Fundamentals and Dynamic of the Military Team I. (3-1-3)

A study of tactics applied at the platoon and company level to include a study of the modern battlefield and current military tactical doctrine. Prerequisite: Basic Course or equivalent and permission of the department.

303. Leadership Seminar. (3-1-3)

A series of seminars, laboratories and experiences to prepare the student for Advanced Summer Camp. Prerequisites: MIL 301 and 302.

304. Military Skills Practicum. (5 credit hours)

The study and practical application of military skills and leadership ability during a six week encampment experience. Grading for this course will be done on a satisfactory, unsatisfactory basis. Instruction and evaluation is jointly accomplished by college staff and selected ROTC personnel assigned to 1st ROTC Region. Prerequisite: Military 303 and permission of department. *Summer*.

401. Fundamentals and Dynamics of the Military Team II. (3-1-3)

A study of command staff duties and responsibilities of the professional officer to include operations, intelligence, administration and logistics. Prerequisites: MIL 301 and 302.

402. Leadership and Management II. (3-1-3)

A study of military history, the military justice system and service orientation. Prerequisites: MIL 301 and 302.

DEVELOPMENTAL STUDIES PROGRAM

RONALD B. McFADDEN, Director

Clara Elmore-Bain
Charlie Bryan
Russell Ellington
Louise Lewis-Golden
Mary Ann Golwire
Timothy Goodwin
Joan Green
Lancy Jen

Beverly Johnson, Secretary
Louise McDonald
Joyce McLemore
Hattie Nash
Karen Penick
Lawrence Simmons
George Thomas, Sr.
Keith Wilson

ADMISSION

Entering Freshmen whose Scholastic Aptitude Test scores are less than 750 must sit for the system-wide Basic Skills Exam in English, reading and math. College-wide cut off scores on the afore mentioned tests in conjunction with other standard and locally constructed instruments are utilized to determine exemption from and placement into Developmental Studies courses. Basic Skills Examination cut off scores for exemption and exit effective Fall 1986 are: English-68, Math-71, Reading-68.

DEVELOPMENTAL STUDIES PROGRAM

The Developmental Studies Program is designed for entering students who have demonstrated marked deficiencies in English, Reading, and Mathematics.

A "Developmental Studies Student" is any student whose score on either of the BSE Tests was lower than the passing score given above. Such students must take all Developmental Studies courses (courses numbered 99 or below).

The undergirding philosophy of the Program is that although there are slow learners and fast learners, most students become very similar with regard to learning ability, rate of learning, and motivation for further learning—when provided with favorable learning conditions. The Program supports the contention that "high risk" students possess strengths that should be developed and weaknesses that can be remediated. In order to facilitate this growth and development, each of the four components of Savannah State's Program of Developmental Studies have created objectives designed to promote the overall mission of the Program. These objectives are based on the desire of Development Studies' staff and faculty to support the students pursuit of academic excellence and life survival skills.

All time spent in Developmental Studies course work shall be cumulative within the University System and the College's students shall not be allowed more than four (4) quarters in any one area. A student who fails to successfully exit any one or more area within the our (4) quarter limitation shall be excluded from Savannah State College and any other unit of the University System for one year.

A student may not accumulate more than 30 hours of degree credit before finishing his Developmental Studies requirements. Any student who does accumulate 30 credit hours or more and who has not successfully completed the required Developmental Studies courses may enroll only in Developmental Studies courses until those requirements are successfully completed.

Successful completion or exit from Developmental Studies will occur only after a student has successfully completed the required courses and met the minimum exit scores in each subject area and successfully passes a final writing sample.

No degree credit will be awarded for Developmental Studies course work. Institutional credit for financial aid and athletic students will be awarded.

The following grade standards will be adhered to by students, only in all class and lab assignments:

A = 91-100

B = 81- 90

C = 75- 80

D = 74- 70

Also, the following grading policy changes:

1. A grade of P indicates that a student successfully completed the course, has met all requirements in the subject area, (including, attaining the state-required score on the BSE for English, math and reading) and is eligible to take regular credit courses in that subject area.
2. A grade of IP (in progress) indicates that a student is making satisfactory progress in the subject area course sequence, but is required to enroll in the next level developmental studies course.
3. A grade of U (unsatisfactory) indicates that a student has less than a 75 average at the end of the 1st, 2nd, or 3rd quarter and must repeat that level course.
4. A grade of F indicates exclusion, no exit. This means that a student has unsuccessfully repeated the state-required number of quarters in remedial courses and must be terminated from the College.

DESCRIPTION OF COURSES

ENG 097. English Fundamentals I - Grammar.

The immediate purpose of English 097 is two fold: to develop and strengthen basic writing skills in grammar, usage, mechanics, and sentence structure; and ultimately to prepare students to pass the post-Basic Skills Examination (B.S.E.) English 097 is the first of two levels of developmental English. On this level, students are engaged in mastering the basic rules of grammar and in applying those rules to their oral and written language. It is designed to remediate the writing deficiencies of students who score below 68 on the pre-Basic Skills Examination (B.S.E.) and who pass and or fail the Placement Writing Sample. To complete this course, students must (1) maintain a class average equivalent to "C" or better, (2) satisfactorily complete laboratory assignments and mastery modules, (3) earn a minimum score of 68 on the post-B.S.E. Upon satisfying these requirements, students who initially passed the Placement Writing Sample will enroll in English 107, the first sequence of the freshman English series, during the next quarter of matriculation. Those who initially failed the Placement Writing Sample must enroll in English 098 for further instruction in composition unless they exempt English 098. Students who fail to satisfy course requirements will re-enroll in English 097 during the next quarter of matriculation.

ENG 098. English Fundamentals II - Composition.

The immediate purpose of English 098 is to give students instruction and practice in organizing and developing the multiparagraph theme and to prepare them to pass the Exit Writing Sample.

English 098 offers instruction in outlining and prewriting, developing the multiparagraph theme, and building vocabulary. A laboratory oriented course, it provides learning situations in both the classroom and English laboratory. This course is designed for students who passed English 097 but who demonstrated a need for additional instruction in composition. This course is also designed for students who initially passed the pre-B.S.E. but who failed the Placement Writing Sample.

RDG 097. Reading Foundations I. (5-0-5)

Reading Foundations 097 is an individualized and classroom directed course in reading. The specific skills to be taught in this course are: scanning, substitutions, context clues, inferences, main ideas, supporting details, comparisons, sequence, cause and effect, problems and solutions, summarizing, fact and opinion, bias/viewpoint, persuasion, relevance/proof, setting/tone/theme, and character and feelings. A student who scores on grade level 8.5 and below on the Stanford Diagnostic Reading test is placed in this course. Writing assignments are an integral part of this course. Subsequent placement in RDG 098 will be determined by the exit requirements for this course. Any student who scores 67 and below on the Basic Skills Exam will be administered the Stanford Diagnostic Reading test (SDRT).

RDG 098. Reading Foundations II (5-0-5)

Reading Foundations 098 is also an individualized and classroom directed course in reading, and the same skills as in RDG 097 are taught and reinforced e.g. scanning, substitutions, context clues, inferences, main ideas, supporting details, comparisons, sequence, cause effect, problems and solutions, summarizing, fact and opinion, bias/viewpoint, persuasion, relevance/proof, setting/tone/theme, and character and feelings. The differences between 097 and 098 are the level of content, placement, and exit requirements. In addition, a student who scores on grade level 9.0 and above on the Stanford Diagnostic Reading test is placed in this course. Writing assignments are an integral part of this course.

MAT 097. Basic Mathematics I: Arithmetic. (5-0-5)

The prerequisite for this course is admission to Savannah State College, a scaled score less than 330 on the mathematics section of the Scholastic Aptitude Test (SAT), a scaled score less than 80% on the University System Basic Skills Examination (BSE) and a score less than 80% on the departmental standardized diagnostic arithmetic test. The course consists of a study of the four fundamental operations as they apply to whole numbers, fractions, mixed numbers, percents; decimals, sign numbers, least common multiple (LCM), greatest common divisor (LCD), mean, mode, median, exponents, radicals, geometric figures, formulas, and word problems. Also, each student will be required to write two themes each per quarter. The combined value of two themes will be equivalent of one chapter test grade. *All quarters.* Institutional credit only.

MAT 098. Basic Mathematics II: Elementary Algebra. (5-0-5)

The prerequisite for this course is the same as Math 097 except that a scaled score greater than or equal to 80% on the departmental standardized diagnostic arithmetic test is required. The course consists of the fundamental operations and laws as they apply to polynomials, equations and inequalities in one variable, graphs and systems of equations, factoring, rational expressions, word problems, and quadratic equations. Also, each student will be required to write two themes each per quarter. The combined value of two themes will be equivalent of one chapter test grade. *All quarters.* Institutional credit only.

FACULTY AND STAFF

1986-87

PROFESSORS

- Venkataraman Anantha Narayanan *Physics*
M.A., M.Sc., Annamalai University; Ph.D., Indian Institute of Science, Bangalore
- Hayward S. Anderson *Business Administration*
B.S., Savannah State College; B.S., Northwestern University; M.B.A., New York University; D.B.A., Harvard University
- Thomas H. Byers *History and Political Science*
A.B., Johnson C. Smith University; M.A., University of Michigan; Ph.D., Ball State University
- Kailash Chandra *Mathematics and Physics*
B.S., M.S., Agra University; Ph.D., University of Gorakhpur
- Edward Clark, Jr., CDR, USN *Naval Science*
B.S., Arkansas State University; M.B.A., Bryant College
- Thomas R. Eason *Economics*
B.S., Union University; M.B.A., Ph.D., University of Mississippi
- James A. Eaton *Philosophy and Religion*
A.B., Virginia State College; B.D., Howard University; M.A., Boston University; Ed.D., Columbia University
- C. Obi Emeh *Biology*
B.S., Cuttington College (Liberia); M.S., Tuskegee Institute; Ph.D., University of Wisconsin (Madison)
- Gian S. Ghuman *Earth Sciences*
B.S., M.S., Punjab University; Ph.D., University of California
- Clyde W. Hall *Regents' Professor of Mechanical Engineering Technology*
B.S., Savannah State College; M.S., Iowa State College; Ed.D., Bradley University
- Lawrence Harris *History and Political Science*
B.S., Baylor University; M.A., University of California; Ph.D., University of Santo Thomas
- Jeraline D. Harven *Administrative Services*
B.S., Tennessee State University; M.S., Ed.D., Indiana University
- Frissell R. Hunter *Biology*
B.S., Va. Union University; M.S., Howard University; Ph.D., State University of Iowa
- Prince A. Jackson, Jr. *Mathematics*
B.S., Savannah State College; M.S., New York University Ph.D., Boston College

- Ja Arthur Jahannes *Psychology*
B.S., Lincoln University (Pennsylvania); M.A., M.A., Hampton Institute;
Ph.D., University of Delaware
- Jeffrey James *Chemistry*
B.S., Savannah State College; M.S., Tuskegee Institute; Ph.D., Howard Uni-
versity
- Lester B. Johnson, Jr. *Engineering Technology*
B.S., Hampton Institute; M.Ed., South Carolina State College; Ph.D., Uni-
versity of Missouri-Columbia
- Pullabhotla V. KrishNamurti *Biology*
B.V.S., Madras Veterinary College; M.S. University of Wisconsin; Ph.D., Texas
A & M University
- William D. McCarthy *Finance and Banking*
B.B.A., M.B.A., Ph.D, University of Georgia
- Manchery P. Menon *Chemistry*
B.S., Madras University; M.S., Arga University; Ph.D., University of Arkansas
- Luetta C. Milledge *English*
A.B., Fort Valley State College; M.A., Atlanta University; Ph.D., University
of Georgia
- Govindan K. Nambiar *Biology*
B.V.S., University of Madras; M.S., University of Tennessee; Ph.D., Texas A
& M University
- Christine Oliver *Music*
B.A., Bennett College; M.M.E., Indiana University; Ph.D., Florida State Uni-
versity
- George O'Neill *English*
B.A., Youngstown State University; M.A., Ph.D., University of Southern Cal-
ifornia
- Leo G. Parrish, Jr. *Business*
B.S.E.E., M.S.I.M., Ph.D., Georgia Institute of Technology
- Kamalakar B. Raut *Chemistry*
B.S., B.A., M.S., Bombay University; Ph.D., University of Oklahoma
- Margaret C. Robinson *Biology*
B.S., Savannah State College; M.S., University of Michigan; Ph.D., Wash-
ington University
- John Simpson *History*
B.A., M.A., North Texas State University; Ph.D., University of Georgia
- Steven R. Smith *History*
A.B., Mercer University; M.A., University of Georgia; Ph.D., Vanderbilt Uni-
versity
- Robert L. Stevenson *English and Theatre*
B.S., M.A., Tennessee A & I State University; Ph.D., Indiana University

Ralph Traxler	<i>Management</i>
<i>B.A., Mercer University; M.A., University of Colorado; Ph.D., University of Chicago</i>	
Willie G. Tucker	<i>Chemistry</i>
<i>B.S., M.S., Tuskegee Institute; Ph.D., University of Oklahoma</i>	
Hanes Walton	<i>Political Science</i>
<i>Calloway Professor</i>	
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Rose Harris Wright	Library Assistant II
Linda Holmes.....	Library Assistant II
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Elizabeth Chapman.....	<i>College Nurse</i> <i>LPN</i>
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Morgan Bedgood	<i>Officer</i>
Yvonne Cutter	<i>Secretary</i>
Jerome Fergson	<i>Sergeant</i>
Leroy Groover	<i>Lieutenant</i>
Joan Lipsey	<i>Communications Operator</i>
Gloria Mills	<i>Officer</i>
JoAnn Mitchell	<i>Sergeant</i> <i>B.S., Savannah State College</i>
Charlotte West.....	<i>Corporal</i>
Donald Williams	<i>Officer</i>
Marva Williams	<i>Communications Operator</i>
Gwendolyn Wright	<i>Officer</i>

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Amy Benton	<i>Accounting Clerk</i>

Linda Durham	<i>Administrative Secretary</i>
Alvin Ogden	<i>Manager of the Warehouse</i>
Elisa Golden.....	<i>Superintendent of Grounds Maintenance</i> <i>B.S., Florida A & M University</i>
Ulyses Burrell.....	<i>Superintendent of Building Maintenance</i>

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Carless Lawyer.....	<i>Public Relations</i>
Charlene Manigault	<i>Admissions and Records</i>
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Raycine McGhee	<i>Army ROTC</i>
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